



2019 Faculty Directory



**USDETC- Making a difference in dairy education by providing training
for the next generation of dairy professionals**

2019 Faculty

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Amin Ahmadzadeh
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Area of Interest

Dr. Ahmadzadeh is interested in applied cattle reproduction research with an emphasis on fertility and management. His research has been focused on developing a systematic breeding program for dairy cattle to increase fertility rates and improving reproductive and economic advantages of artificial insemination on dairy farms. He is also interested in interaction between nutrition and reproduction.

Consortium Instruction

Dr. Amin discusses the role of reproductive management using data commonly available on a dairy. You will learn how to evaluate records in order to identify potential “short falls”. This module emphasizes the importance of sound decision making that influence herd profitability.



Mike Brouk
Professor/Extension Specialist

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Area of Interest

Michael J. Brouk was born November 15, 1962, in Franklin County, Missouri. He attended Linn R-2 Schools graduating in May 1981. Following high school graduation, he attended the University of Missouri-Columbia majoring in agronomy and dairy science and received the Bachelor of Science degree in Agriculture in May 1985. From 1976 to 1984, he was also an active partner in the family grain farm located in Osage County, Missouri. The University of Missouri-Columbia employed Mike as a Research Specialist for two years after he completed his undergraduate program. The research projects involved the utilization of dairy processing plant waste as a fertilizer for forage crops and as a protein and mineral supplement for livestock. He then began a Master of Science degree program under Dr. Ron Belyea at the University of Missouri-Columbia. The title of his thesis was "Chewing Behavior and Digestion of Alfalfa Forage." Following completion of his M.S. degree, Mike accepted a position with Cenex/Land O'Lakes in southwestern Minnesota. He worked as a Livestock Production Specialist developing nutrition and management programs for dairy and beef producers. After two years with LOL, he entered a doctoral program under the direction of Dr. David Schingoethe at South Dakota State University. His dissertation topic was "Net Energy of Lactation and Ruminant Degradability of Wet Corn Distillers Grains." Following completion of the Ph.D. in Animal Sciences he joined the teaching and research staff of South Dakota State University in January 1994. Mike was responsible for teaching undergraduate dairy management, nutrition, breeding and cattle evaluation courses as well as developing a dairy cattle nutrition research project.

Mike returned to the University of Missouri-Columbia in August of 1996 as an Extension Specialist with Commercial Agriculture Program. He was responsible for developing state wide extension programs in the areas of dairy cattle nutrition, forage systems, replacement heifer development and dairy cattle management. He joined the faculty of Kansas State University in December of 1998 as a State Dairy Extension Specialist where he holds a 30% teaching and 70% extension appointment. His current responsibilities include development of programs in dairy cattle nutrition, management, cow comfort, replacement heifer development, dairy expansion and heat stress abatement. He is currently involved in several research projects evaluating various heat stress abatement methods in commercial dairy herds.

Consortium Instruction

Dr. Brouk discusses the use of precision technologies in dairy herd management such as the introduction of robotic milking. In addition, he will discuss heat stress and procedures and facilities that are available to producers to reduce the impact of heat stress on production and productive life.



Chad DeChow
Associate Professor
Pennsylvania State University

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Area of Interest

Dr. Devhow grew up on a small dairy farm in New York state and was active in 4-H, FFA and the Junior Holstein Club activities, His primary research is the improvement of dairy cow health and well being as they continue to be bred for higher levels of milk yield and milk production efficiency. His research has demonstrated that genetic selection for stable body weight and body condition can help maintain high levels of cow health in high yielding and efficient dairy cows . His research group have researched the use of dairy farm records as a potential source of health records for direct selection for disease resistance, and evaluated strengths and weaknesses of crossbreeding programs in regard to cow performance . His research group have developed evaluation methods that estimate and demonstrate genetic trends for individual dairy farms.

Consortium Instruction

Dr. DeChow discusses basis inheritance and the use of sire summaries in selecting sires for herd improvement. New conceptus in genetic evaluation are also discussed. Students, using a herd simulation program, will be able to see the impact of genetic selection on genetic improvement after several generation of selection.



Doug DeGroff
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Area of Interest

Doug DeGroff was raised in a large dairy community in Upstate New York. During his high school years, he worked dairy farms in the area and had his own swine farrow to finish operation. He earned his Bachelor's degree from Cornell University in Dairy Science in 1996. After graduation, Doug relocated to California where he entered the dairy industry in sales and marketing with both the Monsanto Company & Cargill Animal Nutrition. In 2001 he spent one year managing a large dairy outside Green Bay WI.

In 2007, Doug started his own company, Diversified Dairy Solutions, LLC.

It was a dairy nutrition and management firm. Doug keeps busy with volunteering for his church, his children's school, the California Ag Leadership Program, while also working as a Cornell Alumni Ambassador. He has recently joined the Make A Wish Foundation Advisory Board for California's Central Valley Chapter. Doug also enjoys spending any free time he has with his family. Doug and his wife, Alison, and their 3 children; Drew, Luke and Makenna, live on an Almond & Pistachio Farm in Tulare, CA

Consortium Instruction

Material covered will be using DairyCOMP 305 dairy management software as a way to manage today's modern dairies.



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Area of Interest

Dr. Albert De Vries grew up on a dairy and swine farm in the central part of the Netherlands. He received his bachelor's and master's in Animal Science with a minor in agricultural economics from Wageningen University in the Netherlands in 1991. In 1995 he came to the United States to pursue a PhD in Animal Sciences at the University of Minnesota with a focus on dairy science, applied economics, operations research and statistics. After graduation in 2001 he accepted a faculty position at the University of Florida.

He teaches two undergraduate dairy courses and advises dairy students. His research interests are in optimization of culling and replacement strategies, statistical process control, economics of reproduction, and precision dairy farming. In his extension role, De Vries works with allied industry and dairy producers on farm financial management and to apply the results of his research interests.

Consortium Instruction

Dr. DeVries covers advanced aspects of dairy herd evaluation. He discusses tools that could be useful for financial and herd management in dairy farms.

**David Douphrate**

Associate Professor

The University of Texas Health Science Center at
Houston

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Area of Interest

Dr. Douphrate works in the areas of occupational safety management. His areas of interest includes prevention of work related injury and illness, occupational ergonomics and safety, safety management and leadership, Ergonomic assessment, Occupational health and safety leadership and management , Employment testing, Work disability, Worker performance and efficiency, worker physiology, agricultural injury and illness prevention

Consortium Instruction

Dr. Douphrate discusses dairy work place safety issues. Successful completion of this module will result in the student receiving OSHA certification



Larry Fox
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Area of Interest

Lawrence (Larry) Fox originally hails from New York state where he was a dairy herd-manager following his graduation from Cornell University. His first faculty position was at the University of Hawaii, where his duties were Dairy Extension, research and teaching. For 33 years he has been on the Faculty of Washington State University and is currently Professor in the Departments of Veterinary Clinical Medicine and Animal Sciences. He was very active in teaching dairy production, advising the Dairy Club, co-coaching the Dairy Challenge team, and researching mastitis abatement strategies. For many years Larry has worked with students and youth in various educational projects at Hawaii, WSU and at Clovis, New Mexico.

His research program was designed to examine new methods of control of *contagious and opportunistic* mastitis pathogens. These efforts were principally directed at control of *Staphylococcus sp.* and *Mycoplasma sp.* mastitis. The focus was directed at the development and validation of strategies to control this disease through applied and basic research. Most recently the program is utilized biotechnologies to “Fingerprint” and speciate *Staphylococcus sp.* and *Mycoplasma sp.*, to trace the pathogen from its reservoir to fomite to the host, the cow. The goal was to translate the improved understanding of the epidemiology of the diseases to improved strategies of control. Lastly, Dr. Fox has directed studies to examine the role of the immune system in mycoplasma bovine associated diseases. Such efforts lead to management strategies to improve immune competence to combat this disease complex.

Consortium Instruction

The focus of the Mammary Gland Health and Milking Management week at the Consortium will be how to maintain quality and quantity of the milk crop that exits the gland. Students will receive instruction in mammary gland anatomy, mammary gland physiology, mammary immunity, mastitis pathogens, milk quality measures, and milking system analysis. The thrust of didactic instruction will be to tie the basic with the applied such that the student will be able to answer the “why” in terms of how things work and the “how” in terms of their application. In continuation, the experiential learning component will be geared to providing the student with a context as to how the basic information can be applied on the farm.



Patrick French
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Area of Interest

Pioneering nutritional concepts and technologies, Patrick French assists dairy nutritionists and consultants in implementing advanced technologies, such as amino acid balancing, to improve profitability. French also holds an adjunct appointment in the department of dairy science at Virginia Tech. Prior to joining Feed Components, French was a technical sales nutritionist with The Old Mill-Troy, Inc., a premix and specialty product distributor in North Troy, Vt. Previous to that, he was manager of ruminant nutrition and research with Southern States Cooperative Inc. in Richmond, Va., providing technical field support, including formulation and product development. French also taught nutrition and dairy production at Oregon State University and conducted research related to transition cow nutrition and forage quality. French has bachelor's degrees in accounting and animal sciences and a master's degree in animal science from the University of Kentucky and a Ph.D. from Virginia Tech. Residing in Richmond, Va., French is a member of ADSA, ASAS and ARPAS

Consortium Instruction

Dr. French covers the basics of DairyCOMP 305 and how to use data effectively to increase dairy profitability.



Mike Hutjens
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Area of Interest

Mike Hutjens was raised on a grade Holstein farm near Green Bay, Wisconsin. His bachelor, masters, and Ph.D. degrees were awarded from the University of Wisconsin, Madison.

From 1971 to 1979, Dr. Hutjens was extension dairy specialist at the University of Minnesota where he coached the national champion team in 1978 at the World Dairy Expo. Since 1979, he has been a member of the University of Illinois Animal Sciences Departments as extension dairy specialist. He speaks at 60 to 70 meetings at conferences in 46 states, 17 foreign countries, and nine Canadian provinces. Mike writes feed columns for Hoard's Dairyman and Dairy Today and hosts the Hoard's Dairy monthly webinars.

Award recognitions include the Undergraduate Teaching Purina Award from the American Dairy Science Association, National DeLaval Extension Worker Award, ADSA, Applied Nutrition Award from ADSA, Outstanding Extramural Instructor (University award) in 1993 and 2000, and two citations from the Minnesota Board of Regents,. Mike was president of the American Dairy Science Association. In 2008, he was select "Service Person of the Year" by World Dairy Expo. In 2009, he received the Award of Honor from ADSA and Fellow. He also received the "Eagle Award" from the IL Farm Bureau Association. In 2013, Dr. Hutjens received the national DHI Service Award.

He resides in Savoy, IL, with his wife, Carol and five children and seven grandchildren. Mike served six years in the U.S. Army Reserve Mike retired from the University of Illinois on Dec 31, 2010 and continues to teach part time.

Consortium Instruction

Dr. Hutjens has authored a book for Hoard's Dairymen entitled "Feeding Guide". The book addresses the feeding factor and provide practical feeding guidelines and recommendations to increase the profitability of the dairy farm. The book is used as the basis of his lectures

**Bob James**

President, Down Home Heifer Solutions
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Area of Interest

Bob was responsible for demonstrating the relationship between early intestinal microbial levels and colostrum antibody absorption, as well as develop equations to predict intake in post weaned dairy heifers. Conducted research which led to development of Jersey calf milk replacer and protocols for management of on farm pasteurizers of calf milk and management of calf autofeeders.

Teaching interests included senior and graduate level courses in dairy management, applied dairy nutrition and dairy records and advisor to Va. Tech Dairy Club

Extension and outreach activities include organizing and development of the Va. Tech Dairy Nutrition Cow College in cooperation with our Va. State Feed Association and conducted dairy extension programs in Virginia. He was a founding member of Professional Dairy Heifer Growers Association which later became Dairy Calf and Heifer Association and has consulted with calf ranches and dairies and made presentations in over 30 states in the U.S. and 12 countries on dairy cattle and dairy heifer nutrition and management.

Consortium Instruction

This module will provide an overview of dairy replacement management. Students will discuss the economics of replacements and the numbers game associated with replacement programs. We will discuss dry cow protocols, calving, colostrum management and pre-weaned calf nutrition. Others topics include weaning, older heifers and individual versus auto-feeders.

**Barb Jones**

Director, Southeast Regional Dairy Center
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Area of Interest

Dr. Jones is interested in the use of precision dairy technologies in managing dairy herds.

Consortium Instruction

Dr. Jones will talk about the use of precision technologies in herd monitoring to be able to make better management decisions.



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Area of Interest

Dr. Matthew Lucy is Professor of Animal Science at the University of Missouri-Columbia. A native of New York State, he received a B.S. from Cornell University where he developed an interest in dairy cows. He then moved to Kansas State University where he began his studies of reproduction in postpartum dairy cows and later completed a Ph.D. in Dairy Science at the University of Florida on the same topic. He conducted postdoctoral research in the dairy research group at Monsanto (St. Louis, Missouri) before accepting a faculty position at the University of Missouri in 1994. His career has included two sabbaticals. The first in 2003-2004 with the DairyNZ group in New Zealand and the second in 2013-2014 with Teagasc Moorepark in Ireland where he served as a Fulbright Specialist. Dr. Lucy's current research program examines the metabolic processes regulating the endocrinology and fertility of dairy cows and explores practical methods that evolve from this research. He has 150 peer-reviewed publications listed in Scopus. He is a recipient of the ADSA Hoyt Award (1990), the Midwestern Section ASAS Outstanding Young Researcher Award (2000), the ADSA Foundation Scholar Award (2000), the ADSA Pfizer Animal Health Physiology Award (2003) and the ASAS Animal Physiology and Endocrinology Award (2010). He is a past-President of the Dairy Cattle Reproduction Council (completing his term in 2011). Dr. Lucy served as a Physiology Section Editor for the Journal of Dairy Science from 2006 to 2012 before beginning his term as Editor-in-Chief of the Journal of Dairy Science in 2014.

Consortium Instruction

Dr. Lucy conducts the reproduction week with hands on and lectures ranging from biology of reproduction to estrus synchronization and artificial insemination. Since he is known for his work on the reproductive physiology of high producing dairy cattle, his lectures will include physiological processes regulating fertility and practical methods that have evolved from this research.

**Bill Mahanna**

Global Nutritional Sciences Manager
Pioneer

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Area of Interest

Bill Mahanna was raised on a Holstein dairy in Upstate New York, and been with Pioneer for 31 years and is currently the Global Nutritional Sciences Manager. He also serves as a collaborative, associate professor in the Animal Science Department at Iowa State University and a visiting professor at Bila Tserkva State Agrarian University in the Ukraine.

Prior to Pioneer, Bill was a tenured, associate professor of animal science at the University of Wisconsin-River Falls, where he taught courses in dairy nutrition and management and coached several nationally ranked dairy judging teams. Bill was honored for his teaching ability while at UW-River Falls by being selected by students as the Universities "Distinguished Teacher of the Year" in 1985 and by fellow faculty members as the "Outstanding Faculty Member in the College of Agriculture" in 1987.

Bill has worked with dairy producers across the United States, Canada, Europe, Japan and China and is known to many as a frequent speaker at producer and nutrition conferences. Bill has authored over 200 popular press articles including penning the "*Dairy Bottom Line Nutrition*" column in Feedstuffs Magazine from 2007 to 2015 and the "*Field to Feed Bunk*" column in Hoards Dairyman from 2010 to 2015. The American Dairy Science Association (ADSA) awarded Bill the 2014 Nutrition Professionals award for significant contributions to the field of applied dairy nutrition.

Consortium Instruction

The Global Nutritional Sciences Team which Bill leads also wrote the Pioneer Silage Zone Manual, 2nd Edition (2017) which encompasses plant, grow, harvest, store and feed aspects of corn, high-moisture corn and alfalfa silages. This manual will be the foundation of the forage topics covered by Bill in his lectures at the US Dairy Education and Training Consortium and include aspects of selecting, growing, harvesting, storing and feeding quality forage and high-moisture grain crops

**Juan Pineiro**

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Area of Interest

Juan Pineiro was born in Argentina in northeast Patagonia region and helped his family on their cow calf-operation. His area of interest has been in the area of transition cow management, farm personnel training and dairy cattle reproduction. During graduate school he taught veterinary and graduate students about transition cow management with emphasis on reproductive performance of lactating cows. He also taught best calving management practices, including hands-on demonstration on dystocia management

Consortium Instruction

Dr. Pineiro will focus on the cow management during the last part of the dry period and the first two weeks of lactation. This time has often been referred to as the “make or break” part of a cow’s lactation.



Scott Pook
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Area of Interest

Dr. Scott Pook is an extension dairy veterinarian for the College of Veterinary Medicine at the University of Missouri-Columbia. He is also a member of the Commercial Agriculture Dairy Focus team where he provides expertise in the area of reproductive management. Dr. Pook was born and has lived in Wisconsin for the majority of his life. He was in the first class to graduate from the University of Wisconsin School of Veterinary Medicine in 1987. He practiced at the Birnamwood Veterinary Clinic (in Birnamwood, Wisconsin) for almost 19 years. His primary work was with dairy farms. He is board certified by the American Board of Veterinary Practitioners in both beef and dairy cattle practice.

Consortium Instruction

Dr. Pook focuses on basic and applied aspects of reproduction management in dairy herds.

**Normand St. Pierre**

Director of Research—Perdue

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Area of Interest

Normand St-Pierre is Professor Emeritus of Animal Sciences at the Ohio State University and Director of Research and Technical Services for Perdue AgriBusiness. He grew up in Québec, Canada, where he received his B.S. degree in Animal Science and M.S. degree in Animal Nutrition, followed with a Ph.D. degree in Dairy Science in 1985 from The Ohio State University. After ten years in the private sector, he joined the Department of Animal Sciences at The Ohio State University in 1997, where he conducted research and extension programs in the areas of dairy farm management, nutrition and biometrics until his retirement in 2016. Dr. St. Pierre has published over 400 articles in various publications, including Journal of Dairy Science, Hoard's Dairyman and Progressive Dairyman, and has received numerous awards for his research and extension work. When not around cows or cow people, you will likely find him riding or fixing one of his 12 bicycles or his beloved sailboat.

Consortium Instruction

The modules focuses on feeding the large herd. This includes logistics of inventory and inventory control to insure a consistent nutrient flow to the dairy herd.

**Matt Taylor**

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Area of Interest

Dr. Taylor's primary research interests are in the utilization and mechanisms of food antimicrobials to inhibit bacterial foodborne pathogens. Natural food antimicrobials are diverse in their chemistry, spectrum of activity, sources, and applications within foods. Specifically, research is conducted to investigate and determine the manner by which food antimicrobials inhibit microbial pathogens. Additionally, research is conducted that seeks to overcome obstacles to the use of food antimicrobials in some product by the encapsulation of food antimicrobials. Dr. Taylor is currently participating and leading collaborative research projects with faculty in the Departments of Horticultural Sciences, Nutrition and Food Science, Poultry Science, and even Chemical Engineering, in addition to multi-institutional research projects with scientists from around the U.S.

Consortium Instruction

Dr. Taylor covers milk chemistry and quality and the impact it has on producing the final milk product. During this module, students visit an artesian cheese plant and local yogurt producer.

**Marina von Keyserlingk**

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Area of Interest

Marina A. G. von Keyserlingk received her BSc in agriculture and PhD in animal science from the University of British Columbia and her MSc in animal science from the University of Alberta. von Keyserlingk makes outstanding contributions to the advancement of dairy cattle welfare as professor and associate dean of graduate studies in the Faculty of Land and Food Systems in the Animal Welfare Program at the University of British Columbia. von Keyserlingk serves on several dairy cattle welfare advisory committees in North America and has made more than 200 extension presentations discussing cattle welfare across the world.

Her research areas are focused on links between behavior and nutrition, particularly in welfare related issues. Use of feeding behavior to predict animal health and productivity, specifically at the time of transition (when dairy cows are particularly susceptible to illness).

Consortium Instruction

Dr. von Keyserlingk discusses welfare aspects of dairy farms.