

2013 Fellows of the American Dairy Science Association

The 2013 elected fellows were recognized at the Awards Program of the American Dairy Science Association held on July 10, 2013, at the Hyatt Regency Indianapolis, Indiana. Election to Fellow is one of the highest honors that the Association bestows. The Fellow Award recognizes ADSA members for their distinguished service to the dairy industry for 20 years or more. Each nominee must have made exceptional contributions to the dairy industry, to a dairy-related discipline, or to ADSA; must have had professional membership in ADSA for a minimum of 20 years; and must be in good standing with the Association.

David K. Beede

David K. Beede has been a member of and leader within ADSA since 1974. He is a dedicated and visionary leader who has had his “finger on the pulse” of the dairy



industry, allowing changes to be made proactively. He has the foresight to identify future challenges and his leadership has greatly benefited ADSA as well as the dairy industry.

Dr. Beede’s record of service to ADSA is very strong and extensive including, a two-term membership on the Editorial Board of the *Journal of Dairy Science* (JDS) in the late 1980s and extensive

leadership for ADSA annual meetings. He was Chair of the 1988-1989 ADSA Physiology Program Committee, ADSA Production Division Secretary and Chair in 1996-1997, Chair of the ASDA Production Division Meeting Program in 1997, and Overall Chair of the Joint Meeting Program Planning Committee in 2000 in Baltimore. Dr. Beede became more deeply involved in the leadership of ADSA when he was elected to the Board of Directors on which he served from 1998-2004. He was elected Vice President in 2001, and served as President from 2002-2003 and immediate Past President from 2003-2004. In addition, he served on the Federation of Animal Science Societies (FASS) Board of Directors from 2003-2004.

Dr. Beede has contributed to the dairy industry through research, graduate student training, extension/

outreach, and by serving as a member of the National Academy of Sciences National Research Council Subcommittee on Dairy Cattle Nutrition from 1997 to 2001. His research has focused on animal well-being including heat stress and transition cow management (exercise for dry cows and calcium metabolism to reduce milk fever) and the environment including air quality and reducing phosphorus supplementation. Dr. Beede has received several national and state awards recognizing the quality and impact of his research and extension work. In addition, Dr. Beede is an excellent mentor of graduate students, several of whom have won awards.

As a faculty member, currently at Michigan State University (1994-present) and previously at the University of Florida (1980-1994), Dr. Beede has researched issues that are of the utmost importance to the dairy industry related to animal nutrition, management, and the environment. Furthermore, he has provided important leadership for the dairy industry in Michigan, Florida, and the United States. As the Meadows Endowed Chair Professor of Dairy Management, Dr. Beede has provided outstanding leadership for the MSU Dairy Team including establishing and acting as managing publisher of the Michigan Dairy Review, a highly regarded publication resulting from Dr. Beede’s vision, initiative, and leadership to the dairy industry in Michigan and the United States.

Dr. Beede’s contributions to ADSA and the dairy industry have been outstanding, and he has provided passionate and visionary service to ADSA consistently for well over thirty years. His leadership strategically helped shape the Association to be responsive to change so it can continue to benefit its members, dairy science, and society well into the future. For a career of service to the dairy industry and to ADSA in particular, we are pleased to make David K. Beede a Fellow of the American Dairy Science Association.

Robert J. Collier

Bob Collier is nationally and internationally recognized for his research and publications in the areas of the biology of lactation and environmental physiology over a 42-year period from 1971 to 2013. While on the faculty at the University of Florida, he demonstrated that heat stress during late pregnancy significantly



reduced milk yield in the subsequent lactation. He then demonstrated that there was a seasonal trend in birth weight of dairy calves that was related to the seasonal trend in milk yield. He subsequently demonstrated that summer heat stress altered placental function leading to lower birth weights as well as reduced mammary-gland development. These results were later confirmed by other research groups in several different locations in the world and have led to altered management of dairy cows during late pregnancy worldwide to reduce environmental heat load and thus improve calf birth weight and milk yields of the dam during lactation. This reduction in birth weight of calves was also related to lowered resistance of calves to disease because of failure of immunoglobulin transfer. Collier was the first to publish the hormonal requirements for initiation of milk secretion in the dairy cow while a graduate student at the University of Illinois and then went on to author or coauthor more than 70 papers on the biology of growth hormone and prolactin regulation of milk secretion during lactation in the dairy cow. He also copublished a series of papers on the role of bovine placental lactogen, a hormone produced by the fetal placenta on mammary development and milk synthesis in the dairy cow. Since 1999 Collier has been a professor in the Department of Animal Science at the University of Arizona. Since coming to Tucson he has published a series of papers revising the temperature-humidity index, which is used to determine cooling needs for dairy cows during summer months. He has also published extensively on the effect of environmental heat stress on gene expression in the dairy cow and has identified molecular pathways associated with resistance to heat stress. Collier and his then student, Laura Hernandez, also collaborated with Nelson Horseman of the University of Cincinnati to identify a new regulatory system in the mammary gland that is driven by the neurotransmitter, serotonin. This has opened a whole new area of research into the role of this molecule in regulation of mammary-gland function. His group has identified 5 different receptors for this molecule in the mammary gland of the cow, and there are several potential roles for this molecule. To date it has been demonstrated that serotonin is involved in regulation of milk synthesis, mammary blood flow, and calcium mobilization in the lactating dairy cow. Finally, Collier published a series of papers on nutritional management

of dairy cows during hot weather and has collaborated with several investigators over the years to devise methods for improved nutritional management of the heat-stressed dairy cow. Collier was recently named by *Western Dairy Magazine* as educator or scientist of the year for 2013. Collier also previously received the Upjohn Physiology Award, The Land O'Lakes Award for Dairy Research, and the University of Illinois Alumni Award of Merit. In addition, he was awarded an Honorary Research Fellow from the Hannah Research Institute (University of Glasgow, Scotland). He has authored or coauthored 366 journal articles, chapters in books, reviews, and abstracts as well as 9 US patents and 53 popular articles.

For a career of service to the dairy industry and to ADSA in particular, we are pleased to make Robert J. Collier a Fellow of the American Dairy Science Association.

F. Xavier Malcata

F. Xavier Malcata's academic journey began in 1987 when he applied for a doctoral program at the University of Wisconsin–Madison, at the interface of food science



and chemical engineering. He started his graduate studies the following year under the supervision of Charles G. Hill Jr. and the late Clyde Amundson, with a focus on reactors for lipase-mediated transformation of butter oil; his pioneering efforts in this field soon became apparent. After earning his PhD degree in 1991, he has been able to consistently maintain a remarkable combination of

applied research, administrative prowess, and service to the Portuguese, European, and international dairy industries.

At present, Malcata is full professor at the College of Engineering of the University of Porto, where he is responsible for training in food engineering; he has previously served as dean of the College of Biotechnology of the Portuguese Catholic University for 11 consecutive years. Malcata has a keen intellect, a prodigious work capacity, remarkable professional ethics, and the ability to motivate others and create consensus around innovative ideas; he has been uniquely successful in transmitting and making those innovative ideas work in practice, while contributing for education and R&D of students in dairy fields.

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