

# **The Ohio State University 2019 Animal Sciences Hall of Fame**

## **Distinguished Alumnus**

Dr. Danny Fox is a Professor Emeritus in the Department of Animal Science at Cornell University. He was born and raised in northwest Ohio and received his B.S. in Animal Science in 1962 from The Ohio State University. After operating and managing the family farm in Williams County for 5 years, he returned to OSU Animal Science and received M.S. (1968) and Ph.D. (1970) degrees in Ruminant Nutrition. At Cornell University since 1977, Dr. Fox conducted research and Extension programs in beef and dairy cattle nutrition and taught courses in beef and dairy cattle nutrition and nutrient management. Before joining the Cornell faculty, he held positions as beef cattle Extension feedlot specialist at South Dakota State University and beef cattle feedlot nutrition research and Extension at Michigan State University.

Dr. Fox's 35 year career in ruminant nutrition research focused on the development of data, methods, mathematical models, and computer software to more accurately predict cattle nutrient requirements and nutrients derived from feeds with wide variations in cattle types, environments, and feeds and the composition of their carbohydrate and protein fractions. At Cornell from 1977 until retiring in 2005, Dr. Fox organized and led a team of faculty, graduate students, and research support staff that developed, evaluated and implemented on farms with microcomputers the Cornell Net Carbohydrate and Protein System (CNCPS) for evaluating and formulating rations for beef and dairy cattle. In 1992 Dr. Fox was asked to serve on the National Research Council (NRC) committee to revise the NRC (1984) nutrient requirement recommendations for beef cattle and to develop a computer model for application of their recommendations, which was based on the CNCPS. Subsequently, many components in the NRC (1996) model were used in the development of the 2016 National Academy of Science, Engineering and Medicine Beef Cattle nutrition model.



Dr. Danny Fox