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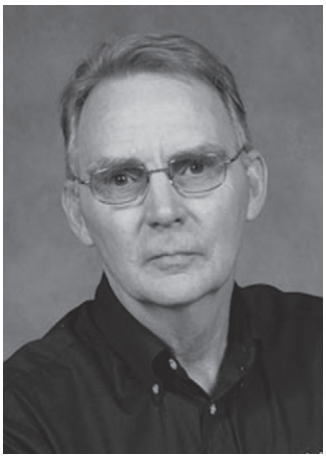
2012 Fellows of the American Dairy Science Association®

The 2012 elected fellows were recognized at the Awards Program of the American Dairy Science Association held on July 17, 2012, at the Hyatt Regency, Phoenix, Arizona. 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.

Donald J. McMahon

Donald J. McMahon's journey to becoming a Fellow of the American Dairy Science Association began 36 years ago when he met the late C. Anthon (Tony) Ernstrom in Australia in 1976. Unbeknown to McMahon, Ernstrom was not only the editor of the *Journal of Dairy Science* at that time but was also one of the pre-eminent dairy food scientists in the world and was always ready to recruit people to the study of food science. Shortly afterwards, McMahon began graduate studies at Utah State University and gave his first presentation at an ADSA annual meeting in 1982. After completing his PhD, and while working for Kraft Foods in Australia, he was an invited speaker at a symposium on casein micelles at the 1984 ADSA meeting. During the past 25 years, while he has been leading dairy foods research at Utah State University, he has been an author on over 100 presentations at ADSA annual meetings and on more than 60 papers published in the *Journal of Dairy Science*. Many of these have been in conjunction with the 35 MS and PhD students he has supervised.



McMahon's dairy food research has included casein micelle structure, milk coagulation, cheese manufacture and functionality, membrane-concentrated milks, and ultra-high temperature processing of fluid milk beverages. He has had a consistent focus on understanding the chemistry of cheese that permits designing the manufacturing of cheese for specified needs. Much of this work occurred during the 15 years he has served as director of the Western Dairy Center, which is one of six national US dairy foods research centers established 25 years ago by the National Dairy Board from dairy farmer check-off funds, and is now part of the Dairy Research Institute network of dairy research centers. McMahon currently teaches dairy technology and processing to senior and graduate food science students as well as a graduate cheese science course.

Utah State University has a long history of providing training on cheesemaking since its inception in 1888; ten years ago, the program was revitalized by McMahon to provide a strong technical foundation for the rebirth of small-scale cheese manufacture in Utah. Since then, companies that have received cheesemaking training and recipes from the Western Dairy Center have begun winning national and international awards for their artisan cheeses. In his role as the university's professor of dairy processing, McMahon also directs the manufacture of their Famous Aggie Ice Cream, considered by alumni to be the best in the country.

McMahon has been a member of the ADSA Milk Protein and Enzymes Committee since 1989, and he served on the *Journal of Dairy Science* editorial board from 1985 to 1995. He received the ADSA Gist-Brocades Award for outstanding contributions to understanding cheese structure and functionality in 1999, the ADSA International Dairy Foods Association Research Award in Dairy Foods Processing in 2007, and the *Journal of Dairy Science* Most-Cited Paper Award (Dairy Foods section) in 2011 for his paper on casein supramolecular structure. For a career of service to the dairy industry and to ADSA in particular, we are pleased to make Donald J. McMahon a Fellow of the American Dairy Science Association.

John P. McNamara

John McNamara, scientist and professor in animal sciences, is recognized by the American Dairy Science Association by election to Fellow. McNamara has been a faculty member for 29 years at Washington State University (WSU). As a graduate student, he helped

with research, eventually leading Dale Bauman to develop the concept of homeorhesis and the development of recombinant bovine somatotropin. Starting at WSU as a faculty member, his foundational research with Joe Hillers on metabolic control in lactation, primarily in adipose tissue, began with the then-new field of nutritional physiology in dairy cattle. With his colleagues, he discovered the metabolic reasons why cows in late lactation are so efficient at regaining body reserves. Their work demonstrated the genetic differences in adipose tissue metabolism that supported higher milk production. His and his students' recent work in this area has demonstrated specific changes in gene transcription in adipose tissue that relate to greater milk production. More than 20 years ago, he teamed with Lee Baldwin to challenge and expand the mechanistic metabolic model of the cow and has used that model approach to improve our understanding of metabolic control and dairy cattle efficiency. He continues to lead research and travels worldwide to encourage integrated research in the systems biology of the dairy cow, focusing on integrating genetics with nutritional and reproductive control to identify patterns of metabolism in the most efficient dairy cattle. He has served on the NC185, NC009, and NC1040 research committees for 25 years and has written or co-written 3 revisions of that project. He has advised the WSU Cooperative University Dairy Students farm for the last 12 years, helping students learn business, personal, and cow skills. He has served on several editorial boards, including 4 terms as an editor of the *Journal of Dairy Science*. He has served as a visiting professor at universities and research institutes in the United States, Australia, and New Zealand; procured more almost $2M in research and teaching support; mentored several graduate students and hundreds of undergraduate students; and has published more than 200 peer-reviewed research papers, proceedings, and invited talks. He serves as advisor to the Cooperative University Dairy Students, with many graduates working throughout the dairy industry. Previously, McNamara was one of the first recipients of the CAHE (WSU College of Agricultural, Human, and Natural Resource Sciences, CAHNRS) Excellence in Research Award; he also received the CAHNRS Excellence in Advising Award (2005); the ADSA Young Scientist Award (1992); Higher Education Teacher of the Year Award (2001) from the Washington Science Teachers Association; and the Corbin Excellence in Companion Animal Biology from the American Society of Animal Science (2007).

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

Ronald L. Richter

Ron Richter is recognized by the American Dairy Science Association by election to Fellow. He was born on a dairy-grain farm near Ledyard, Iowa, in 1942. After high school, he attended South Dakota State University, where he received a BS degree in dairy science in 1966. When he discovered that people would pay him to go to school, he went to the University of Kentucky and received an MS degree in 1967. He then had the opportunity attend Texas A&M University to continue his studies toward PhD in food technology, which he received in 1970.

Immediately after graduation, he accepted a position in the Food Science department at the University of Minnesota where he worked until 1972. In 1972, Ron accepted a position as extension dairy technologist at the University of Florida. After six years, he had the opportunity to return to Texas A&M University and has been there since that time. His teaching is primarily focused toward the undergraduate program but he has supervised more than 40 graduate students during his career. Richter had an active research program directed toward dairy technology, supported by more than $1,000,000 in research grants secured during his career. His research has resulted in the publication of 40 papers in scientific journals and three book chapters. He also authored or co-authored 54 published abstracts, 14 extension publications, 55 trade journal articles, and 12 articles in proceedings of meetings in which he made presentations. Students he has been closely associated with hold many prominent positions throughout the dairy and food industry in the United States and internationally. Ron has been active in many organizations where he has been recognized for his efforts. He has received the Outstanding Teacher

Award from ADSA, and the Sanofi Research Award from the American Cultured Dairy Products Institute. Ron was elected as a Fellow in the Institute of Food Technologists (IFT) and elected to the Board of Directors of the IFT, but his primary activities have been with ADSA, where he has served as an editor of the *Journal of Dairy Science*, president, and treasurer. He has served as president of the Southern Branch of ADSA and as president of Phi Tau Sigma, the national honorary society of food science. He has worked closely with the Texas Association of Food Protection to help members of the Texas dairy industry stay current with regulatory and technical developments in the industry.

Ron married Alice Decuir of Port Arthur, Texas, in 1970. They have two children, Laura who lives in College Station, Texas, and Ricky, who currently resides in Driggs, Idaho.

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

George R. Wiggans

George R. Wiggans is recognized by the American Dairy Science Association by election to Fellow. Wiggans, the son of an upstate New York Holstein dairy producer, has been a research geneticist for 34 years with the Animal Improvement Programs Laboratory (AIPL), US Department of Agriculture (USDA), in Beltsville, Maryland. He received a BS in dairy science (1968) and an MS in animal breeding (1969) from Cornell University and then served as a volunteer for agricultural development in Laos and a teacher/counselor for emotionally disturbed children in Brewster, New York. The school had a model farm, where he obtained experience working with sheep and dairy goats. He returned to Cornell and completed his PhD in animal breeding (1978). He has spent sabbaticals in Israel, Illinois, Australia, and New Zealand.

Wiggans has made numerous contributions to improving the accuracy of genetic evaluation procedures for economically important traits in dairy animals (cattle and goats). He led implementation of the animal model (1989) currently used for national genetic evaluation of 33 million cows and bulls for yield and fitness traits. He is recognized internationally as an authority on projection and standardization of yield records, genetic evaluation of dairy goats, application of an animal model to large data sets, development of a test-day model, and selection and use of single nucleotide polymorphisms (SNP) in genomic evaluation. His current research on genomic evaluation emphasizes quality and management of genotypes.

Wiggans' research has affected Dairy Herd Improvement Association (DHIA) members, dairy records processing centers, breed associations, and AI organizations, as well as dairy producers throughout the world. He has authored 299 publications and 121 abstracts (senior or sole author of 180, including 48 scientific journal articles). He has received more than 100 invitations from the dairy industry for presentations at international, national, state, and district meetings, as well as for seminars at universities. He served as the associate editor of the Genetics and Breeding section of the *Journal of Dairy Science* (1988–1991).

Wiggans was honored as part of the AIPL research team with an Award of Special Appreciation by National DHIA as well as a Unit Award for Distinguished Service from USDA (1991). He received the National Association of Animal Breeders' Research Award and the ADSA J. L. Lush Award in Animal Breeding and Genetics (1996). He was elected a Fellow of the American Association for the Advancement of Science in 1997. Wiggans was part of a team that won a USDA technology transfer award as well as a National Partnership for Reinventing Government (Vice Presidential Hammer) Award for more timely and effective delivery of genetic evaluations (2000). He received the American Dairy Goat Association's Mary L. Farley Award (2000) for outstanding work on behalf of the dairy goat industry. National DHIA presented Wiggans with its Outstanding Service Award (2006). He was a co-recipient of a USDA Secretary's Honor Award (2010) as a member of the Cattle Genomics Consortium. Wiggans also was a member of the team cited as an Exemplary Case Selected for Special Recognition by the Agriculture, Food, Nutrition, and Natural Resources R&D Round Table (2011) for collaborative research projects that have yielded significant impacts for taxpayers.

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