

## **2018 Arthur B. Chapman Lectures in Animal Breeding and Genetics Dr. William M. Muir – Purdue University, USA**



The 2018 Arthur B. Chapman Lectures in Animal Breeding and Genetics at the University of Wisconsin-Madison will be presented on April 30 (Monday), 2018 by Professor William M. Muir.

Dr. William M. Muir attended the University of Illinois where he received both his B.S. in Conservation Biology and M.S. in Quantitative Genetics, and Purdue University where he received a Ph.D. in Population Genetics. He is Professor Emeritus at Purdue University, Department of Animal Sciences, and has held positions at the University of Kentucky Department of Statistics, and Indiana University School of Medicine. He is the recipient of the Animal Well-Being Award, American Poultry Science Association, Merck Research Award for Achievement, and Certificate of Excellence from the Council for Agricultural Science and Technology; served on the National Academy, National Research Council on Animal Biotechnology. He is an internationally recognized authority in poultry breeding and genetics. He has over 200 peer reviewed publications, 3 in PNAS, 1 in Science on Line, and edited the book Poultry Genetics, Breeding, and Biotechnology. He was the first to demonstrate that "group selection" is an effective breeding method to address animal welfare concerns in poultry while at the same time improving productivity. He further developed methodology to estimate an animal's competitive, or indirect genetic effect, on group productivity and thereby provided generalized breeding methods to address competitive issues in both animal and plant breeding programs. His work is frequently quoted in a wide variety of news media outlets, including Nature, NOVA, NPR, the Evolution Institute, Forbes, the Today Show, USA Today, BBC News online. A TED Talk by the management expert Margaret Heffernan was the first person to apply the lessons of Muir's research directly to the human workplace. His "Super-chicken" model, featured in "Down with the Pecking Order – Geneticist's Superchicken Research Takes Flight as a Metaphor for Effective Team Management, can be found on Wikipedia. He also developed methodology for biotechnology risk assessment of genetically modified organisms thereby providing government agencies, industry, and environmentalists with objective assessments of risk for the protection of the environment while promoting responsible use of biotechnology.

**April 30<sup>th</sup> (Monday)**

**8:50 a.m., Room 212, Animal Science Building**

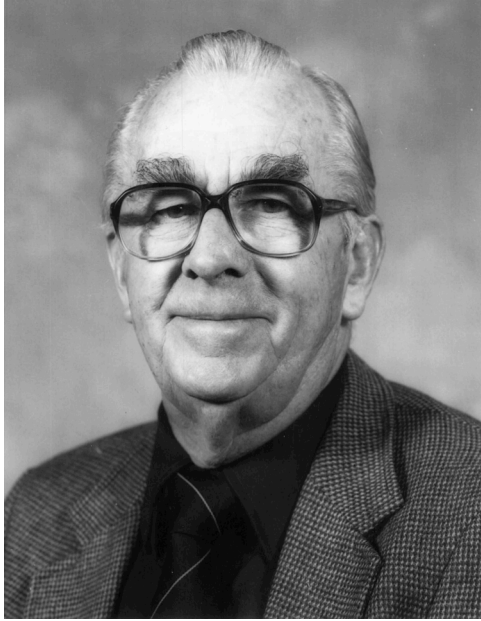
**The Science and Science Fiction of GMOs: "With Great Power Comes Great Responsibility"**

**12:05 p.m., Room 209, Animal Science Building**

**Development of Reliable Breeding Programs to Improve Animal Welfare and/or Productivity in Competitive Environments**

**by**

**Professor William M. Muir – Purdue University**



## Professor Arthur B. Chapman Lecture Series

The annual Chapman Lectures in Animal Breeding and Genetics are in honor of Arthur Barclay Chapman, a Professor of Animal Breeding and Genetics in the Departments of Genetics, Meat and Animal Science, and Dairy Science at the University of Wisconsin-Madison from 1936-1975.

Prof. Chapman was born in Windermere, England, on Oct. 25, 1908. He came to the U.S. in 1925 and became a naturalized citizen in 1936. He received a B.S. degree at Washington State University in 1930, the M.S. at Iowa State University in 1931, and his Ph.D. at the University of Wisconsin in 1935. Dr. Chapman was appointed to the faculty of the University of Wisconsin in 1936 and became a Professor of Genetics in 1947. He later added appointments as Professor of Animal Breeding and Genetics in the Departments of Meat and Animal Science and Dairy Science, and he was housed and conducted most of his later research within these two animal departments. He retired in 1975 as Professor Emeritus. Prof. Chapman's career at the University of Wisconsin is remembered not only for his many contributions resulting from his extensive research program, but also for his wonderful ability to communicate his knowledge to his graduate students and for the personal interest he and his wife, Winnie, took in their lives. He died Dec. 29, 2004 at the age of 96 having had a life "well-lived."

Prof. Chapman authored hundreds of papers and articles and co-authored several books on the genetic improvement of livestock. He was an active member of several scientific societies related to his professional interests: the Genetics Society of America, American Genetic Association, Biometrics Society, American Dairy Science Association, the British and New Zealand Societies of Animal Production, and the Egyptian Society of Genetics. As a most active member of the American Society of Animal Science, he served as Associate Editor from 1958 - 1960 and Editor from 1961 - 1963 of the *Journal of Animal Science*. Prof. Chapman received the Animal Breeding and Genetics Award of the Society in 1969, the Morrison Award in 1974, and became a Society Fellow in 1972. He also served as president of the Society from 1964-1965 and as director in 1966. He served on the Editorial Board of the *Journal of Heredity* and was a Fellow of the American Association of Science. A Rockefeller Foundation Award for teaching and research in Poland was received in 1960, and a Fulbright and Guggenheim Foundation fellowship was received for study in New Zealand in 1966-1967. A conference room, 432 Animal Sciences, has been named in his honor by the Departments of Animal Sciences and Dairy Science at the University of Wisconsin-Madison.

The A.B. Chapman Lectures in Animal Breeding and Genetics have been presented annually since 1994 by leading world scholars in the various fields related to genetic improvement of livestock. Previous A.B. Chapman Lecturers have been: Dr. Brian W. Kennedy (Canada, 1994); Dr. Jean-Louis Foulley (France, 1995); Prof. William G. Hill (United Kingdom, 1996); Dr. Brian P. Kinghorn (Australia, 1997); Dr. R. Leyden Baker (Kenya, 1998); Dr. Louis Ollivier (France, 1999); Prof. Morris Soller (Israel, 2000); Dr. Laurie Piper (Australia, 2001); Prof. Max. F. Rothschild (Iowa State University, 2002); Prof. James F. Crow (University of Wisconsin-Madison, 2003); Prof. L. Dale Van Vleck (USDA and University of Nebraska at Lincoln, 2004); Prof. Jack C. M. Dekkers (Iowa State University, 2005); Prof. E. John Pollak (Cornell University, 2006); Prof. Leo Dempfle (Germany, 2007); Prof. Agustin Blasco (Spain, 2008); Prof. Miguel A. Toro (Spain, 2009); Prof. Daniel Sorensen (Denmark, 2010); Prof. Trudy Mackay (North Carolina State University, 2011); Prof. Dorian Garrick (Iowa State University, 2012); Prof. Henner Simianer (Germany, 2013); Prof. Jerry Taylor (University of Missouri, 2014); Prof. Alison L. Van Eenennaam (University of California-Davis, 2015); Prof. Michael E. Goddard (University of Melbourne, 2016); Prof. Noelle Cockett (Utah State University, 2017).

The A. B. Chapman lectures are financially supported by the A. B. Chapman Fund, University of Wisconsin Foundation. Tax deductible contributions to the A. B. Chapman Fund can be made at: <http://www.supportuw.org/>.