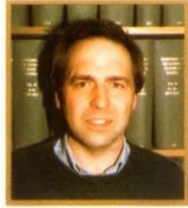


Guest of Honor



- **Name:** John
- **Surname:** Speakman
- **Nationality:** British
- **University:** University of Aberdeen, UK
- **Project Title:** The causes and consequences of variation in energy metabolism

Abstract

Prof. J. Speakman, the full Professor at Department of Zoology, University of Aberdeen, U.K, has won many awards for his scientific achievements and has written 213 papers in the international journals. He has recently worked hard on energy regulation in animals. He believes that everything that animals and humans do, both behaviourally and physiologically, requires energy. The study of energetics and energy balance therefore has enormous ramifications in many different areas of enquiry. I work on the patterns of energy regulation in animals and their implications for several key biological questions. The present submission concern a collection of 99 publications. These papers include studies of the energy demands of flight, the energy demands of lactation in female small mammals, and the energy requirements of animals living in their natural environments. The most important publications in this submission, however, are 24 papers that concern the most important topics to which energetics has an important contribution to make. These are firstly the issue of how global climate change will affect the capacity of animals to make energy balances in different areas of the globe, and therefore the future patterns of their distributions. Second, the issue of how energy expenditure is related to metabolism are beneficial, and finally the importance of energy balance for the development of obesity, widely acknowledged to be the most significant health threat currently facing the world.