



3rd International Symposium on
Energy **C**hallenges & **M**echanics
- towards a big picture

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Speaker of Session 10

Bioenergy



David Mousdale received his B.A. in Biochemistry from the University of Oxford (1974) and his Ph.D. degree from the University of Cambridge (1979). He pursued postdoctoral research in University College Dublin and the University of Glasgow in plant cell cultures, hormonal control of plant growth and development, enzymology, molecular genetics and the modes of action of xenobiotics.

He is the Managing Director (since 1997) of the company beòcarta (literally, “life-map”, a combination of words from Celtic languages and Latin) set up to mathematically model and improve productivity in microbial and animal cell systems for the commercial production of recombinant proteins, secondary

products (antibiotics, antifungals, and enzyme inhibitors), vitamins, amino acids, enzymes, carboxylic acids...and fuel ethanol.

He is the author of three monographs on biofuels: *Introduction to Biofuels* (CRC Press/Taylor & Francis Group, 2010), *A Quick Guide to Biofuels: When the Oil Runs Out* (BioPlan Associates, Inc., 2010) and *Biofuels: Biotechnology, Chemistry, and Sustainable Development* (CRC Press/Taylor & Francis Group, 2008). The presentation at ECM3 will continue from where the article *Ten Top Indicators for Liquid Biofuel Use in the Next Decade* (Biofuels, Bioproducts and Biorefining Volume 8, Issue 3, pages 302–305, May/June 2014) ended with the timely recommendation to closely study oil price trends.