

OPEN SEMINAR

AARHUS UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL SCIENCE

FREDERIKSBORGVEJ 399, 4000 ROSKILDE

12 AUGUST 2016, 10.15 -10.45

Venue: K1.36 (AU East), Department of Environmental Science

Title:

”Integrated sustainability assessment of land-use systems”

A brief introduction: Bioenergy systems have come under increasing scrutiny due to the urgent need for replacing fossil fuels in order to mitigate climate change impacts. The perceived benefits of bioenergy systems may not hold when a different set of methodological choices are adopted. During his presentation, Miguel Brandão will show how climate-change results depend on a variety of choices, such as the methods applied for time-accounting, inclusion of biogenic carbon flows, allocation, indirect land-use change, reference systems, soil carbon stocks, inventory-modelling approaches, etc.

Speaker: Miguel Brandão is Associate Professor in Industrial Ecology and Life Cycle Assessment at KTH Royal Institute of Technology in Stockholm. Over the last 10 years, he has lectured, researched and supported policy making in many academic, (supra)governmental and private organisations in (e.g. EC-JRC, IEA Bioenergy, International Life Cycle Academy) in several countries. His main interest is on the use of industrial ecology and life cycle approaches to support decision-making regarding our transition towards a sustainable society. His research has focused on the integrated sustainability assessment of land-use systems, particularly the consequential impacts on climate of using land for food, feed, fuel, timber and carbon sinks, with emphasis on their impact on climate change, resource depletion, ecosystem services and biodiversity. Partly under the UNEP-SETAC Life Cycle Initiative, he developed methods for the impact assessment of land use in LCA and for quantifying indirect land-use change (ILUC).

Host: Pia Frederiksen, Senior Researcher, ENVS

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