

**The Center for BioEnergy Sustainability (CBES)
At Oak Ridge National Laboratory (ORNL)
is pleased to announce that we are holding our next Forum on
Monday February 17th, 2014
in Building 2040*, Conference Room E278 starting at 3:30pm
(If you do not have the separate, special prox-building access card to enter
Building 2040, please contact: Cara Mousa at mousacl@ornl.gov for access)**

The forum will be followed by a casual gathering at Virginia Dale's home where light refreshments will be enjoyed as the discussions continue.

**This month's forum topic is:
"Assessing large scale effects of biofuels, including the European perspective"**

Guest Speakers:

Dr. André Faaij
Dr. Floor van der Hilst
Copernicus Institute of Sustainable Development
Utrecht University, Netherlands

Bio:

André Faaij is currently professor Energy System Analysis, scientific director of the Copernicus Institute, and Head of Unit on Energy & Resources Research at the University of Utrecht, Netherlands. He has a master in Chemistry & Environmental Sciences at the University of Utrecht where he also earned his PhD on energy production from biomass and wastes. As of 1 April, 2014, Dr. Faaij will become the Academic Director for the Energy Academy Europe (EAE), serving as the international figurehead of the EAE. In this role Faaij is responsible for the deepening and developing of the strategy in the areas of energy education, research and innovation. This task will include opening new doors to new strategic partners in mainly business but also in academia and research institutes. In conjunction with the EAE, Dr. Faaij will be appointed as a Distinguished Professor at the University of Groningen, Netherlands. In his current position at Utrecht University, André leads the Energy & Resources Unit (some 60 staff) at the Copernicus Institute for Sustainable Development. André is a frequently cited and influential researcher, with a wide-ranging expertise in renewable energy, transport and alternative fuels, capture and storage of CO₂, modelling and scenario analyses of energy systems, technological learning and innovation in energy systems and energy policy. He advises the European Commission, the UN, governments, and private companies. He was appointed 'Young Global Leader' by the World Economic Forum. He is the (co) author of more than five hundred publications, qualifies as "highly cited scientist" by Thomson Reuters (global top 100 of his research field). He worked as visiting researcher at the Center for Energy and Environmental Studies - Princeton University. The Unit covers bio-based economy, sustainable use of fossil fuels, intermittent energy sources and energy system modelling. External evaluations highlighted showing strong international leadership in core areas of Bio-energy and Carbon Capture and Storage.

Floor van der Hilst works as Assistant Professor for the Copernicus Institute for Sustainable Development of Utrecht University. She holds a PhD on the potentials and sustainability of bioenergy production. The PhD project was carried out for both Utrecht University and Wageningen University. Her work focus on land use change related to biomass production and it's impacts and it combines methodology and model development with field work experience. Before she started her PhD she worked as a researcher on energy efficiency the Energy research Centre of the Netherlands (ECN). She obtained a BSc and MSc on Science and innovation management and worked as a junior researcher and lecturer in this field.

She currently coordinates the Flagship project on sustainability within the Be-Basic Program which is a public-private partnership aiming at building a sustainable bio-based economy. The objective of this Flagship is to develop an integrated framework to quantify the sustainability for the bio-based economy. It involves multiple PhD and senior researchers form several Dutch universities and close collaboration with Brazilian partners for the assessment of the Brazilian case study.

Additionally, Floor is involved in several projects on the potentials and sustainability of bioenergy production for e.g. UN organizations, governments, NGOs and industry. She (co-) authored several peer reviewed papers in this topic and frequently presents her work on international events.

Abstract:

Andre Faaij and Floor van der Hilst, [Copernicus Institute of Sustainable Development](#), The Netherlands will give a seminar discussing recent research on the impacts of bioenergy production and land-use change on water, biodiversity and socio-economic variables, and related modeling approaches and data needs. They will discuss recent research underway in Brazil to assess effects of bioenergy production systems at landscape scales and future research interests which include the assessment of scenarios for the Southeastern US forestry sector to provide biomass as a renewable energy resource for Europe. European drivers and the magnitude of potential global demand (e.g. for biomaterials and fuels) and potential sources of supply will be summarized. Preconditions for realizing large potential supplies of sustainable biomass will be discussed.

Please mark your calendar for every third Thursday for 2014 so that you can join in the collaboration and camaraderie that is being built by your participation in the CBES forums.