

**The Center for BioEnergy Sustainability (CBES)
At Oak Ridge National Laboratory (ORNL)
is pleased to announce that we are holding a special Forum on
*Thursday, February 14th, 2013***

in the Ocoee Room (Room 189) in Building 1505 at 3:30pm

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:
"Measuring environmental sustainability indicators in land use
change for sugarcane ethanol production in Brazil"**

Guest Speaker:

Professor Carlos Cerri

Centro de Energia Nuclear na Agricultura of the São Paulo University, Brazil

Abstract:

The presentation will start briefly commenting the importance of agribusiness to Brazilian GDP. After that, the necessary increase in productivity and area for food and biofuel production will be introduced, demonstrating that this can be achieved using exclusively pasture land, with no further deforestation. The question about "How can the sugar cane area be expanded in an environmental sustainable way?" will be answered by the analysis of three main indicators: soil quality, greenhouse gas emissions and soil biodiversity. Each of them will be described in terms of applied techniques for assessment. Finally, a short description of a project approaching the main land-use change (natural vegetation/pasture/sugarcane) will be given.

Bio:

Carlos C. Cerri, PhD, is a professor at the Centro de Energia Nuclear na Agricultura of the São Paulo University, Brazil, where he teaches graduate students and performs research on soil carbon sequestration and trace gas mitigation on tropical conditions. He was director of CENA between 1991-1997 and coordinator of 51 national and international scientific projects on environmental science. His present functions are as Brazilian coordinator of GEF-funded "Carbon Benefits Project", member of Brazilian Academy of Sciences, French Academy of Agriculture, The Academy of sciences for the developing countries-TWAS, "Chevalier dans l'Ordre des Palmes Académiques" of France, Nobel Peace Prize Certificate (IPCC, 2007), Trieste Award of Science (Ernest Illy Prize, South Africa, 2009), Command of Gran Cruz (Brazilian Presidency, 2010), EMBRAPA Prize "Frederico de Menezes Veiga" (2012).