

2011 Seminar Series

Prof Yakov Kuzyakov

Biography

Prof Kuzyakov is a Professor for Soil Science of Temperate Ecosystems, University of Göttingen, Germany and a well-known expert in the application of isotopic techniques to study the soil ecosystem processes. Prof Kuzyakov is supported by the 2011 Sir Allan Sewell Visiting Fellowship (Griffith University Short-Term Visit Fellowship) to work with A/Prof Chengrong Chen and other colleagues at the Environmental Futures Centre and Griffith School of Environment between 12 September and 13 October 2011.

Presentation

“Application of isotopes for studies of soil carbon sequestration”

Carbon (C) sequestration in soil is one of the most important options to mitigate the increase of CO₂ concentration in the atmosphere and to decrease global warming. Very slow C turnover in soil however, limits the possibilities of direct estimation of changes of C stocks. Various isotopic approaches allow us to overcome this limitation and to estimate not only the stocks, but also mechanisms and processes of C sequestration. The principles of $\delta^{13}\text{C}$ natural abundance and labelling approaches will be presented using examples of studies of C sequestration in grasslands and agricultural ecosystems.

Monday 10 October 2011

12:00pm – 1:30pm

Gold Coast campus

The Chancellery, G34_2.02

Light refreshments will be served.