



SEACRIFOG Summerschool on “Nutrient cycling in agricultural production systems in Africa”

Date:

6th - 15th July 2019

Location:

Mazingira Centre, ILRI, Nairobi, Kenya

And

Kapiti Research Station, Kenya

Overall Goal:

To know and understand different measurement techniques (particularly greenhouse gas emission quantification) that enable researchers to understand nutrient cycling in agroecosystems

Course Format:

Theoretical courses combined with practical tasks including own measurements in the field and data analysis

Agenda:

Day 0 Arrival to Kenya for students outside of Kenya

Day 1 (7th July) ILRI Mazingira Centre visit and drive to Kapiti Research Farm in the afternoon
– Evening: Aims of Course, SEACRIFOG project, Environmental Research infrastructures, Students Project Presentations

Day 2 Soil GHG exchange – manual and automatic greenhouse gas chambers in the field

Day 3 Animal GHG emissions – feeding, bite tracking, liveweight, autochamber etc.

Day 4 Isotopes as powerful tool to identify processes/link between nutrient pools

Day 5 Ecosystem GHG exchange – eddy covariance

Day 6 Remote Sensing – Lars or Francesco

Day 7 Experimental Design - own projects

Day 8 Day of Departure

Whom is the course focused for?

The course aims at first year PhD students with a focus on environmental sciences (particularly greenhouse gas emission quantification) or related discipline, 18 places are available

Fees:

The course will be free of charge, including accommodation, catering as well as transfers from ILRI to Kapiti Research Station and return to Nairobi at the beginning and end of the course.

Students must organize for their own travels to Nairobi – support can only be given in exceptional cases. In case this is necessary, kindly indicate this in your application.

**Confirmed Lecturers:**

Dr. Sonja Leitner (Soil Sciences, Soil Ecology),
Dr. Svenja Marquardt (Animal Nutrition)
Dr. Lutz Merbold (Biogeochemistry, nutrient cycling at various scales),
Prof. Janne Rinne (Eddy covariance),
Dr. Matti Barthel (Isotopes),
Dr. Francesco Fava (Remote Sensing)

Application Procedure:

If you are interested, please send:

(1) a motivation letter, (2) a short and concise description of your PhD project (1 page) and
(3) a recommendation letter to Dr. Lutz Merbold (l.merbold@cgiar.org) and Beth Njoroge
(b.njoroge@cgiar.org) latest by 15th April 2019. Applicants will be informed about the
outcome of their application mid May 2019.