

# International Symposium on Soil Carbon Modeling in Agricultural and Forest Ecosystems

- Current status and future challenges -

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**12 November 2013 – 13 November 2013**

## Venue:

National Institute for Agro-Environmental Sciences (NIAES), Tsukuba, Japan

<http://www.niaes.affrc.go.jp/outline/outlinee.html#map>

Room: Large meeting room (2<sup>nd</sup> Floor)

## Joint hosts:

National Institute for Agro-Environmental Sciences (NIAES)

Forestry Forest Products Research Institute (FFPRI)



## Programme

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### Day 1 (Tuesday 12 November 2013)

Welcome address 13:15

Key note: **Climate change mitigation and soil**

Prof. Keith Paustian (Colorado State University, United States) 13:30–14:20

**The uncertainty of modelled soil carbon stock change for Finland**

Dr. Aleksi Lehtonen (Finnish Forest Research Institute, Finland) 14:20–15:00

Break 15:00-15:15

**The carbon balance of European croplands**

Dr. Martin Wattenbach (Helmholtz Centre Potsdam, Germany) 15:15–15:55

**Linking soil organic carbon pools of RothC model with measured fractions**

Dr. Michael Herbst (Forschungszentrum Jülich, Germany) 15:55–16:35

Discussion 16:35-17:00

## Day 2 (Wednesday 13 November 2013)

### Process-based modeling of SOC dynamics at global scale

Dr. Akihiko Ito (National Institute for Environmental Studies, Japan) 9:30–10:00

### Simulation of soil carbon stock change in croplands in Japan using RothC model with spatially-explicit land-use change inventory and its validation using a nationwide soil monitoring archives - Can the system's performance meet requirement for a national greenhouse gas accounting?

Dr. Yasumi Yagasaki (National Institute for Agro-Environmental Sciences, Japan)  
10:00–10:20

### Changes in chemical composition of organic carbon in litter, dead wood and soil in Japanese forest stands

Dr. Shigehiro Ishizuka, Dr. Yoshimi Sakai, and Dr. Kenji Ono (Forestry and Forest Products Research Institute, Japan) 10:20–10:40

### Soil carbon stabilization process revealed by physical fractionation approach: why old C remains in soil and can/should we model it?

Dr. Rota Wagai (National Institute for Agro-Environmental Sciences, Japan) 10:40–11:00

Break 11:00–11:20

Discussion 11:20–12:00



Contact:

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