



The role of the Royal Swedish Academy of Agriculture and Forestry is to promote agriculture and forestry and related activities for the benefit of society, with the support of science and practical experience. The Academy was founded in 1811 at the initiative of Karl XIV Johan and started its work on 28 January 1813.

Seminar

Whole-Rotation Carbon Budgets in Swedish forests

Background, current trends, and the future

Time	Friday 23 September, at 9.00–16.00 (registration and coffee from 08.30)
Venue	The Royal Academy of Agriculture and Forestry, Drottninggatan 95 B, Stockholm, Sweden
Registration	No later than 19 September via this link or through our website www.ksla.se .
Fee	The seminar is free of charge, but cancellations must be made no later than 20 September, or we will invoice SEK 500 to cover costs.
Web	The seminar will be webcast, link at www.ksla.se
Questions	Content: Birgitta Naumburg, birgitta.naumburg@ksla.se , tel + 46 8 54547707 Registration: Gun Askerö, gun.askero@ksla.se , tel + 46 8 54 54 77 12
This conference is financed by the Knut and Alice Wallenberg foundation	

Forests and carbon are intimately linked: forest productivity depends on uptake of carbon dioxide, CO₂, from the atmosphere, and the release of carbon, C, from forests is a major source of CO₂ into the atmosphere. The net balance between C uptake and release is very responsive, differing by several fold across landscapes, over time within a stand, and across species and silvicultural systems. Accounting for the C balance of forests depends on accurate representations for these factors that influence C release and uptake.

The Knut and Alice Wallenberg Foundation has donated SEK 12 million to the Royal Swedish Academy of Agriculture and Forestry on the occasion of the Academy's 200th anniversary. With the funds, the Academy has announced one-year guest professorships for researchers of the highest international standard in the fields of the Academy. Professor Dan Binkley (School of Forestry, Northern Arizona University, USA) is the second holder of this professorship. During his year in Sweden, Professor Binkley worked at the Swedish University of Agriculture Sciences in Umeå.

This seminar will develop and discuss the state of knowledge in C balances and accounting for the forests of Sweden. Professor Binkley will join with experts from Sweden, Finland, Denmark, and the United States to examine the key features of carbon budgets, forests, and forest products. Topics will include the challenges of complete accounting for carbon over long periods and large landscapes, how carbon budgets shift with forest age and management (including even-age and continuous-cover systems), and important current trends and possible future scenarios for forests and carbon in Sweden.

Welcome!

Carl-Anders Helander
General Secretary and Managing Director, KSLA



Programme

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Friday 23 September 2016

Moderator: Tomas Lundmark, Professor, SLU, Fellow of KSLA

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| 08.30 | Coffee and registration |
| 09.00 | Welcome
Carl-Anders Helander, General Secretary and Managing Director, KSLA |
| 09.10 | The importance of carbon in the world's forests
Mark Adams from the University of Sydney (Professor, and Director of the Center for Carbon, Water, and Food |
| 09.30 | Comprehensive carbon accounting for forests: issues of time and space
Dan Binkley, Northern Arizona University, USA, holder of the second KSLA-Wallenberg professorship |
| 10.00 | Why forest growth and carbon accumulation changes with stand age
Michael G. Ryan, Senior Research Scientist, Colorado State University, USA |
| 10.30 | Coffee |
| 11.00 | Growth and carbon implications of even-aged and continuous-cover forestry
Lars Lundqvist, Associate Professor, SLU |
| 11.30 | Carbon stock changes in forests and soils across Sweden: the National Inventories
Göran Ståhl, Professor, SLU |
| 12.00 | Lunch |
| 13.00 | Responses of soil carbon to forest management
Lars Vesterdal, Professor, University of Copenhagen |
| 13.30 | Short and long term mitigation options – how forest management can contribute to reduced CO₂ in the atmosphere
Pekka Kauppi, Professor, University of Helsinki |
| 14.00 | Broader insights on forest management in relation to carbon balance
Tomas Lundmark, Professor, SLU |
| 14.30 | Coffee |
| 15.00–16.00 | Discussion and conclusions |