

Rationale and Aims

Agricultural landscapes are shaped by human activities and are subject to permanent change through the interplay of natural processes, land use and societal developments. Knowledge about the underlying processes of landscape dynamics at all relevant spatial and temporal scales is the prerequisite for sustainable landscape management. The aim of the conference is to present recent advances in landscape research to enhance the development of sustainable agricultural land use and landscape strategies. The particular objective is to bring together key findings from relevant disciplinary and interdisciplinary approaches as well as from basic and application-oriented research.

Scope

The conference focuses on recent scientific work related to:

- › The functioning of landscapes, with a focus on element cycles and microbiomes including approaches to scale up from individual processes to the landscape scale.
- › Sustainable land use practices and appropriate governance systems, which secure the provision of food and fibre as well as other ecosystem services and biodiversity.
- › Advances in science toward the development of an integrated landscape theory.

Plenary Keynote Speaker

Yiqi Luo (University of Oklahoma; USA)

Lael Parrott (University of British Columbia, Canada)

Sandrine Petit (INRA, France)

Important Dates and Deadlines

Open registration	20 July 2017
Open abstract submission	20 July 2017
Deadline for abstract submission	20 Sep 2017
Abstract acceptance	15 Nov 2017
Early Bird registration ends	15 Dec 2017
Regular registration ends	31 Jan 2018

Conference Fees

Early Bird registration	350 Euro
Regular registration	400 Euro
ZALF / Conference dinner	50 Euro
Field trip	30 Euro
Satellite workshops	30 Euro

Please submit your paper via our website template
<http://www.land2018.eu>

General Symposium Structure

DAY 1 (Berlin)

- › Satellite workshops (self-organized by participants)*

DAY 2 (Berlin)

- › Keynotes
- › 3 parallel sessions with oral presentations and discussions

DAY 3 (Berlin / Müncheberg)

- › Keynotes
- › 3 parallel sessions with oral presentations and discussions
- › Guided Poster Session
- › Visit at ZALF Müncheberg
- › Conference dinner in Müncheberg

DAY 4 (Berlin)

- › Keynotes
- › 3 parallel sessions with oral presentations and discussions
- › Final plenary session

DAY 5

- › Satellite workshops (Berlin), (self-organized by participants)*
- › Field trips (all day)

* If you are interested to organize your own workshop, please contact the conference secretariat (landscape2018@zalf.de)

Conference Chairs

Frank Ewert (ZALF, Müncheberg),
Mark Rounsevell (IMK-IFU, KIT, Garmisch)

Conference Host

Katharina Helming (ZALF, Müncheberg)

Website

www.land2018.eu

Venue

www.adlershof.de/en/event-services/rooms-locations/
www.zalf.de/en



Leibniz Centre for
Agricultural Landscape Research
(ZALF)

2nd Announcement

- Call for Papers - Landscape 2018 Frontiers of agricultural landscape research



12–16 March 2018

Berlin, Germany, Adlershof con.vent
Müncheberg, Germany, ZALF

Main sessions

The three main sessions cover research results on:



Landscape Functioning Element Cycles and Microbiomes

Scientific Committee

Joergen Olesen (University of Aarhus, DK), Andreas Richter (University of Vienna, AU), Pete Smith (University of Aberdeen, UK), Harry Vereecken (FZ Juelich, University of Bonn)

Climate and land use change as well as management practices determine carbon and nitrogen dynamics in agricultural landscapes, which affect greenhouse gas (GHG) emissions and C and N sequestration. The relevance of soil microbiome properties as relevant regulative forces at the landscape scale is largely unresolved. Modelling approaches at regional to global scales will also greatly benefit from better knowledge about soil microbiology.

The session's focus is on element cycles and microbiomes in agricultural systems from a landscape perspective. The session aims to present state-of-the-art knowledge of the link between C and N dynamics and microbiomes of agricultural landscapes (including land-atmosphere interactions) and identifies research needs in the fields of soil microbiology, soil science, and related disciplines to improve our understanding and modelling of the role of the microbiome on landscape processes.

Session Keynotes

Prof. Andreas Richter (University of Vienna, AU)
Prof. Jorgen Olesen (University of Aarhus, DK)

Session Chairs

Laurent Philippot (INRA, FR)
Steffen Kolb (ZALF)



Land Use and Governance Managing Ecosystem Services and Biodiversity at the Landscape Scale

Scientific Committee

Leon Braat (WUR, NL), Brendan Fisher (University of Vermont, USA), Adrienne Grêt-Regamey (ETH Zuerich, CH), Eva Lieberherr (ETH Zuerich, CH)

Sustainable use of agricultural landscapes requires research on land use strategies at the landscape scale that focusses not only on the provision of agricultural commodities, but also on the provision of ecosystem services and biodiversity by means of adapted management and governance approaches. The integration of diverse societal preferences at the landscape scale can reveal and thus help to avoid or minimize land use conflicts.

This session addresses the fundamental questions: a) if and how can agricultural landscapes be managed and governed under economic pressure, and b) which innovations in land management and social systems support the development of multifunctional landscapes?

Session Keynotes

Christine Fürst (Martin Luther University Halle-Wittenberg)
Brendan Fisher (University of Vermont, USA)

Session Chairs

Sonoko Bellingrath-Kimura (ZALF, Humboldt Universität zu Berlin)
Bettina Matzdorf (ZALF, Universität Hannover)



Landscape Synthesis Integrated Systems Analysis – Towards a Landscape Theory

Scientific Committee

Erling Andersen (Københavns Universitet, DK), Cécile Albert (IMBF, FR), Martha Bakker (WUR, NL), Axel Kleidon (MPI, Jena)

Landscapes are characterized by tight coupling and feedback loops between numerous abiotic features, biota and man, forming highly complex systems from which unexpected behaviour can emerge. System behaviour rarely becomes evident if single processes in landscapes are studied in isolation. A systems approach is therefore required to effectively study landscape processes from a landscape system perspective.

Such systems perspective requires both practical methods and a theoretical basis for landscape research. This session addresses the following issues related to the development of landscape systems research and theory: Is there evidence for emerging behaviour or fundamental constraints that determine landscape dynamics? How can landscape dynamics be systematically studied? Which pathways for developing a general theory of landscape processes are suggested?

Session Keynotes

Erle Ellis (University of Baltimore, USA)
Matthias Bürgi (Swiss Federal Research Institute, WSL; CH)

Session Chairs

Peter Verburg (VU Amsterdam, NL)
Gunnar Lischeid (ZALF, University of Potsdam)