



Soil Functions and Climate Change - do we underestimate the consequences of new disequilibria in soil properties?
- SUSTAIN -

Call for Abstracts

Dear Colleagues,

It is my great pleasure to invite you to the **International Congress - SUSTAIN - on the occasion of the International Year of Soils 2015**, supported by the **IUSS** and in combination with the celebrations of the 350th. Anniversary of the Christian Albrechts University zu Kiel. The congress will take place in **Kiel, Germany** from **September 23-26, 2015**.

For further detailed information see <http://www.soils.uni-kiel.de/de/sustain-2015>

Take advantage of the opportunity to complete our conference program with your current research. We kindly request your active support by submitting your scientific contributions to the following main topics, which will be further subdivided according to the submitted contributions.

Topics:

- 1) Soil structure and pore rigidity effects as prerequisites for quantification of physicochemical processes
 - a) Effects of availability and accessibility on local disequilibria
 - b) Interactions between biological activity and physical as well as chemical state variables
 - c) scaling effects

- 2) Effects of (limited) pore rigidity and soil resilience on
 - a) physical (hydraulic, mechanical, thermal)
 - b) chemical (e.g. diffusion)
 - c) biological soil properties and functions
 - d) feedback mechanisms between soil structure formation and plant growth, groundwater and atmosphere

- 3) Innovative approaches to predict climate change induced affected sinks and sources of e.g. atmospheric C, nutrient, water and its consequences to their accessibility and availability

- 4) Modelling approaches to quantify effects of (limited) soil rigidity on mass flow and diffusion at various scales- from the micro- to macroscale

All topics and the detailed differentiation of sub topics and aspects will start with invited keynote lectures followed by voluntary papers and posters. Policy makers, land managers, NGO's and representatives from German and international organizations will deliberate their views of the topic as stimuli for enthusiastic discussions in all thematic sessions and the final concluding analyses.

Furthermore several commissions and working groups of IUSS will organize their meetings in Kiel with related topics and titles, which are being finalized and will be included in the subsequent announcements.

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Deadline: Abstracts must be submitted in English and per email by 1st. March, 2015.

So far 10 international speakers have already confirmed their attendance:

- Prof. Dr. Donald Sparks (USA)
- Prof. Dr. José Dörner (Chile)
- Prof. Dr. Dani Or (Switzerland)
- Prof. Dr. Jirka Simunek (USA)
- Prof. Dr. Xinhua Peng (China)
- PD Dr. Hans Gerke (Germany)
- Prof. Dr. Rattan Lal (USA)
- Dr. Luca Montanarella (Italy)
- Prof. Dr. Paul Hallett, (UK)
- Prof. Dr. Henry Lin (USA)

I am looking forward to welcome you in Kiel for this exciting event, which is one of the main meetings during the International Year of Soils 2015, supported by the International Union of Soil Sciences IUSS. For further detailed information see <http://www.soils.uni-kiel.de/de/sustain-2015>

On behalf of the Organizing Committee

Kind regards,

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