

## General Information

### Venue and Date

Christian - Albrechts - University zu Kiel  
Olshausenstr. 40 • 24118 Kiel • Germany  
23 - 26. Sept. 2015



### Conference Chair

Prof. Prof. h.c. Dr. Dr. h.c. Rainer Horn  
Institute for Plant Nutrition and Soil Science  
Christian - Albrechts - University zu Kiel

### Scientific Committee

Prof. Dr. S. Peth (Germany)  
Dr. T. Baumgartl (Australia)  
Prof. Dr. T. Kosacki (Japan)  
Dr. C. Feller (France)  
Prof. Dr. K. Inubushi (Japan)  
Dr. E. Micheli (Hungary)  
S. Huber (Austria)  
Prof. Dr. M. Gerzabek (Austria)  
Prof. Dr. J. Dörner (Chile)  
Dr. D. Holthusen (Germany)  
Prof. Dr. T. Scholten (Germany)  
Prof. Dr. E. Hartung (Germany)  
Prof. Dr. F. Taube (Germany)

### Invited Speaker

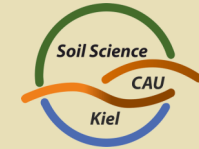
Prof. Dr. D. Sparks (Newark USA)  
Prof. Dr. P. Hallett (Aberdeen, Scotland)  
Prof. R. Lal (Ohio, USA)  
Prof. Dr. X. Peng (Nanjing, China)  
Prof. Dr. Simunek (Davis/USA)  
Prof. Dr. D. Or (Zurich, Switzerland)  
Dr. J. Doerner (Valdivia, Chile)  
Dr. H. Gerke (Müncheberg, Germany)  
Dr. L. Montaranella (JRC, ISPRA)

### Local organizing committee

Dr. H. Fleige  
Mrs. P. Lüttich  
Mrs. B. Vogt  
Mrs. Dr. I. Zimmermann  
Dr. S. Pagenkemper  
Mrs. Dr. D. Holthusen

### Contact

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IUSS Conference on the International Year of Soils  
and the 350th Anniversary of Christian Albrechts  
University

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

**- SUSTAIN -**

*September 23-26, 2015*

*Christian-Albrechts-University zu Kiel, Germany*

[www.soils.uni-kiel.de/de/sustain-2015](http://www.soils.uni-kiel.de/de/sustain-2015)





## Welcome Note



Dear colleagues,

welcome to the international congress about soil functions and climate change, which needs our utmost Attention, because thermal and hydraulic impacts on coupled hydraulic, chemical and biological processes under various land-use systems will alter soil properties enormously in the future.

The key role of soil structure, its functions and its expected changes under various climatic conditions must be analyzed in more detail in order to define the boundary conditions for reliable predictions in a changing environment and/or for a more precise definition of prediction model input parameters which must be available for a reliable analysis of soil and environmental properties and functions. This first congress -SUSTAIN- will deal with such interactions and necessary topics in soil physics, chemistry, biology and coupled processes which will become essential for a more reliable prediction of future soil processes and functions.

We are 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, that is also supported by the International Union of Soil Sciences IUSS.

[www.fao.org/globalsoilpartnership/highlights/detail/en/c/175190/](http://www.fao.org/globalsoilpartnership/highlights/detail/en/c/175190/)

On behalf of the organizing committee

Prof. Prof. h.c. Dr. Dr. h.c. Rainer Horn

## Call for Abstracts

Please submit your abstracts according to the following scientific program per email to: [luttich@soils.uni-kiel.de](mailto:luttich@soils.uni-kiel.de)

Deadline for abstract submission: 1 st March 2015

Early bird registration: 31st March 2015

## Scientific Program

Impact of climate change on Soil Functions – an underestimated challenge for reliable Soil management and prediction models?

- SUSTAIN-

### Topics:

1. Soil structure and pore rigidity effects as prerequisites for quantification of physicochemical processes
2. Effects of limited pore rigidity and soil resilience on hydraulic, mechanical, thermal, and diffusion properties
3. Modelling approaches to quantify limited soil rigidity in structured soils at various scales
4. 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.

## Registration Fees

Participants: 200€                      early bird: 175 €

Student fee: 100€                      early bird: 75 €

Accompanying person: 50€

The price includes lunches (23. - 25. September) coffee, cake etc.

Excursion: 50 € , incl. lunch (26. September)

## Social Program

Welcome Reception, included

Partner Tours: Costs per excursion including lunch, entrance fees 50

€ Conference Dinner: 50 € per person, including all