



# wageningen soil conference

SOIL SCIENCE IN A CHANGING WORLD

*“Essentially, all life depends upon the soil ... There can be no life without soil and no soil without life; they have evolved together.”*

– Charles E. Kellogg, USDA Yearbook of Agriculture, 1938

## SECOND CIRCULAR

# Soil Science in a Changing World

27-31 AUGUST 2017

WAGENINGEN, THE NETHERLANDS

Humankind is currently facing unprecedented challenges regarding food security, water resources, climate change and biodiversity.

The participants of the 2015 edition of the Wageningen Soil Conference agreed that soils play a key role in confronting these challenges. In their resolution, they emphasized the important role of soil organic carbon for several soil functions, and that a professional communication strategy is needed to ensure that society benefits from soil-based solutions.

Wageningen University & Research would like to invite you to the third edition of the Wageningen Soil Conference, to discuss novel insights in (applied) soil science, to identify further actions for soil-based solutions that help achieving the UN Sustainable Development Goals, to initiate programs that aim at a lasting increase in soil organic carbon, and to develop narratives on soil-based solutions that are convincing to policy makers and other stakeholders. We will address these topics in a dynamic way, by top key-note speeches, challenging debates as well as oral and poster presentations by participants.

### ABSTRACT SUBMISSION AND PROCEEDINGS

You can submit your abstract (max 300 words) directly on the Abstract Submission page: [Abstract Submission WSC 2017](#) using the template provided. All abstracts will be published in the conference proceedings and extended abstracts of the keynotes will be published on the website prior to the conference. Please note that a non-refundable abstract submission fee of 25 Euro is charged.

### VENUE AND HOUSING

Wageningen City of Life Sciences, The Netherlands  
Wageningen Campus, Orion building (Building 103)  
Address: Bronland 1, Wageningen  
Housing possibilities are offered on the website.

### DEADLINE FOR ABSTRACTS

Deadline for abstracts:	23 March 2017
Replies to authors:	8 May 2017
Deadline for extended abstracts keynotes:	27 July 2017



**Governance and Policy.**  
**Climate change.**  
**Food security.**  
**Water resources.**  
**Biodiversity.**  
**Land Functions.**

Soil scientists have kept a remarkably low profile in the discussions on these topics that take place in international, multidisciplinary think tanks.

In this conference we will develop narratives about soil-based solutions that are needed to participate meaningfully in these discussions.

The Wageningen Soil Conferences aim to provide a platform for:

- Sharing knowledge of soils across the world and across science
- Engaging in interdisciplinary exchanges of ideas, thoughts, and opinions
- Thinking out of the box and being innovative and creative
- Developing narratives on soil-based solutions for global problems that are convincing policy makers and other stakeholders

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### SCIENTIFIC PROGRAM

With this conference we want to emphasize the importance of soil science for combating and mitigating the challenges of our time: food security, water resources, climate change, land functions, ensuring biodiversity and how to govern these issues and create policy for taking effective measures.

This will be the third edition of the Wageningen Soil Conference series. We have chosen a thematic approach instead of the disciplinary organisation of most conferences.



At the Wageningen Soil Conference each conference day will be divided into two thematic parts. Each part will cover one of the global issues that will be addressed during the conference. The session will start with two key-note speeches followed by a lively debate between the two keynote speakers. Extended abstracts of both keynote speeches will be available for all prior to the conference through the conference website and in the conference book of Abstracts.

The second part of each session will be organised in parallel sessions. Participants can attend one of the oral presentation sessions. In the program ample time will be allocated for poster contributions, discussion and meeting your peers.

# CONFERENCE PROGRAM

## SUNDAY, AUGUST 27

Ice breaker (with early registration): drinks and bites in Loburg Café, Wageningen City Centre from 18.00 – 19.30.

## MONDAY, AUGUST 28

Morning session: Governance & Policy

- Soil Science and the Millennium Development Goals
- EU Water & Soil directives: policy driven soil research
- UN convention to combat desertification
- Soils in Horizon 2020



CHAIR Ronald Vargas KEYNOTES Eric Brevik, Annette Schneegans

Afternoon session: Climate Change

- Carbon sequestration
- Soil respiration and GHG emissions
- Changing farmers best practices
- Waterproof deltas



CHAIR Pete Smith KEYNOTES Daniel Richter, *to be announced*

## TUESDAY, AUGUST 29

Excursions and Conference dinner

The exact program is still under construction. The options include:

- Excursion to the National Park Hoge Veluwe where management and research on wind erosion will be highlighted, followed by an afternoon visit to the Kröller Mullermuseum which hosts many (landscape) paintings of Dutch masters such as Van Gogh.
- A bus geological excursion through west and middle part of the Netherlands where the geological features of the Netherlands will be shown.

- Soilscape Wageningen: a field trip to discover the diversity of soils and landscapes around Wageningen.
- A tour of the Wageningen campus, including some laboratories and the World Soil Museum.

19.00 Conference dinner

## WEDNESDAY, AUGUST 30

Morning session: Water Resources

- Water harvesting in dry lands
- Scaling soil-hydrological functions
- Soils as physical and chemical filters
- Optimizing water-use efficiency



CHAIR Sjoerd van der Zee KEYNOTES Damià Barceló, *to be announced*

Afternoon session: Land Functions

- Managing our land sustainably
- Understanding the multi-functionality of our landscapes
- Consequences of land use change
- Mapping Ecosystem Services



CHAIR Rachel Creamer KEYNOTES Agata Novara, David Wall

## THURSDAY, AUGUST 31

Morning session: Biodiversity

- Land use change and soil biodiversity
- Climate change and soil biodiversity
- Soil DNA-repository
- Soil contamination and soil eco-system functions



CHAIR Peter de Ruiter KEYNOTES Gerlinde de Deyn, Maria Briones

Afternoon session: Food Security

- Soil productivity/fertility
- Soils and micro-nutrients
- Organic matter and soil productivity
- Soil Information to feed the world



CHAIR Ken Giller KEYNOTES Pablo Titttonell, Shamie Zingore



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## SCIENTIFIC COMMITTEE

Chair: Jakob Wallinga (Wageningen University, NL)  
Richard Bardgett (University of Lancaster, UK)  
Maria Briones (University of Vigo, ES)  
Rik van den Bosch (ISRIC-World Soil Information, NL)  
Eric Brevik (Dickinson State University, USA)  
Lijbert Brussaard (Wageningen University, NL)  
Artemi Cerdà (University of Valencia, ES)  
Rob Comans (Wageningen University, NL)  
Rachel Creamer (Wageningen University, NL)  
Gerlinde de Deyn (Wageningen University, NL)  
Ken Giller (Wageningen University, NL)  
Ellis Hoffland (Wageningen University, NL)  
Saskia Keesstra (Wageningen University, NL)  
Heike Knicker (IRNAS-CISC, ES)  
Luca Montanarella (EU-JRC, IT)  
Agata Novara (Università degli studi di Palermo, IT)  
Paulo Pereira (Mykolas Romeris University, LT)  
Wim van der Putten (NIOO-KNAW, NL)  
Daniel Richter (Duke University, USA)  
Coen Ritsema (Wageningen University, NL)  
Peter de Ruiter (University of Amsterdam, NL)  
Pete Smith (University of Aberdeen, UK)  
Pablo Tittonell (INTA, AR)  
Ronald Vargas Rojas (FAO, IT)  
Lea Wittenberg (University of Haifa, IS)  
Sjoerd van der Zee (Wageningen University, NL)  
Shamie Zingore (IPNI, KE)

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## REGISTRATION AND CANCELLATION

Registration opens January 30. The registration costs include access to the Conference, participation in plenary and parallel sessions, a delegates pack containing the programme book, coffeekbreaks, lunches and refreshments during the meeting. You can indicate separately if you want to join an excursion or the conference dinner.

Cancellations should be forwarded to us only in a written form (e-mail to [wageningensoilmeeting@wur.nl](mailto:wageningensoilmeeting@wur.nl)).

Up to June 1, 2017: no cancellation fees will be applied.

From June 1, 2017 through August 1, 2017: 50% of the fee.

After August 1, 2017: no refund.

The abstract submission fee is non-refundable.

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## CONTACT INFORMATION

Environmental Sciences Group, Wageningen UR.

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## COSTS

Full participation	€450
MSc/PhD Student participation	€200
Single day participation	€250
Conference dinner	€25
Excursion	€40
Abstract submission	€25

Reduced rates apply for employees of host institutes and Wageningen alumni (see website)