

## First Announcement



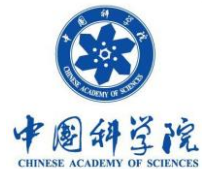
# 26<sup>th</sup> International Symposium of the Scientific Centre for Fertilizers (CIEC)

## *Impact of Anticipating Research in the Past on Research in the Future*

September 4-8, 2019  
Braunschweig, Germany

# *Register now!*

Jointly organized by:



Symposium Secretariat  
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Institute for Crop and Soil Science, Julius Kühn-Institut, Braunschweig, Germany  
Groningen Institute for Evolutionary Life Sciences, Groningen, The Netherlands  
Institute of Applied Ecology (IAE), Chinese Academy of Sciences, Shenyang, P.R. China  
Chinese Academy of Sciences (CAS), Beijing, P.R. China



## Scope of the conference

The 26<sup>th</sup> CIEC symposium is the last one under the presidency of Prof. mult. Dr. mult. Ewald Schnug and is thematically dedicated to issues of **plant nutrition and soil science & fertilizers and fertilization** with special regard to research conducted at the Federal Research Station. The venue is the forum of the Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries in Braunschweig and the symposium is financially supported by the “Gesellschaft der Freunde des Thünen Institutes”. Twelve invited and internationally recognized scientists will address the following thematic subjects:

### **Challenges for the use of beneficial nutrients in agriculture**

*Lawrence Datnoff (Louisiana States University, Baton Rouge, USA)*

### **Significance of the sulfur supply for crop yield, quality and plant health**

*Luit J. De Kok (Groningen University, The Netherlands)*

### **Agricultural, physiological and biochemical aspects of glucosinolates**

*Eduardo Rosa (Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal)*

### **Plant nutrition in organic farming**

*Gerold Rahmann (von Thünen Institute, Trenthorst, Germany)*

### **Impact of land use systems on infiltration capacity of soils**

*Ulrich Köpke (Bonn University, Germany)*

### **100% Zero – for a truly balanced phosphorus fertilizer use**

*Silvia Haneklaus (Julius Kühn-Institut, Braunschweig, Germany)*

### **Fertilizer concepts for marine environmental protection**

*Hans Marten Paulsen (von Thünen Institute, Trenthorst, Germany)*

### **Any future for Precision Agriculture?**

*Carl Aage Pedersen (SEGES, Denmark)*

### **Behavior of fertilizer-derived heavy metals in agro-ecosystems**

*Frank Winde (North West University, Republic of South Africa)*

### **Valorization of phosphate rock processing**

*Bernd Lottermoser (RWTH Aachen, Germany)*

### **Bilateral co-operations – the German/Egyptian success story**

*Peter Webers (BMBF, Bonn, Germany)*

### **Between heaven and earth – mistletoes as precious commodity for cancer cures**

*Hartmut Ramm (HISCIA, Arlesheim, Switzerland)*

In a one-day power performance the invited leading experts will review the research carried out on these themes and provide their personal assessment of future alignments in science. These innovative ideas are open for discussion with all



participants in a World Café and provide an ideal platform to initiate inter- and transdisciplinary co-operations. The symposium brings scientists together in the specifics of targeted nutrition of plants, site-specific fertilizer applications, precautionary measures against potentially hazardous elements entering the food chain, and fertilizer concepts which improve crop productivity, quality and plant health whilst minimizing undesired ecological effects. Delegates will leave the symposium having shared ideas, having contributed to the body of knowledge concerning fertilizer use, and having made friends and contacts for future research.

**World Café thematic group chairmen:**

**Agriculture and marine protection – an eternal conflict?!**

*Marjatta Kemppainen (formerly Ministry of Agriculture and Forestry, Helsinki, Finland, Leena-Marja Kauranne (formerly Ministry of the Environment, Helsinki, Finland) and Zhengyi Hu (UCAS, Beijing, China)*

**Secondary sulfur metabolites – raw material for phytopharmaceuticals**

*Dimitris Bouranis (Agricultural University, Athens, Greece) and Ineke Stulen (Groningen University, The Netherlands)*

**Sulfur makes the plant go round**

*Kerr C. Walker (Merysystem, Alford, Scotland) and Herbert Daybell (Agrimedia, Bottesford, UK)*

**Smart fertilizers for smarter farming**

*Yuanliang Shi and Jie Li (CAS Shenyang, China)*

**Big data, big chance for Precision Agriculture?**

*Mireille Vanoverstraaten (EMVEO, Brussels, Belgium) and Carl Åge Pedersen (SEGES, Denmark)*

**Heavy metal – no light discoveries**

*Ewald Schnug (JKI Braunschweig, Germany) and Zhihui Yang (Changsa University, China)*

**Sino-German research innovations and technologies**

*Yanfen Wang (UCAS, Beijing, China, Silvia Haneklaus (JKI Braunschweig, Germany) and Xiaoyu Shi (CAS Shenyang, China)*

**German-Egyptian research partnership – a backbone since more than a century**

*P. Webers, Susanne Rupert-Elias (BMBF, Bonn, Germany) and Salah Ahmed (NRC Cairo, Egypt)*



## Scientific Excursions

Scientific excursions in the Harz region will be organized which address the topics uranium contamination and heavy metal pollution in urban areas.

## Venue

Forum of the Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries, Bundesallee 50, 38116 Braunschweig, Germany.

## Program

On September 5, 2019 twelve invited and internationally recognized scientists review the research activities of the Institute for Crop and Soil Science during the last 25 years and their messages are open for discussions with the science community in the individual groups of the World Café on September 5-7, 2019. On September 6 and 7, 2019 guided scientific excursions will be organized.

|           | September 4<br>Wednesday | September 5<br>Thursday                         | September 6<br>Friday                               | September 7<br>Saturday   | September 8<br>Sunday |
|-----------|--------------------------|---|---|---|-----------------------|
| Morning   |                          | Opening ceremony<br>Invited keynote<br>lectures | Excursion I:<br>Uranium in the<br>Harz<br>mountains | Excursion II:<br>Heavy metal<br>contamination<br>in urban areas | Farewell              |
| Afternoon | Arrival<br>Registration  | Invited keynote<br>lectures                     | Excursion I<br>(ends 17:30pm)                       | Excursion II<br>(ends 14:00pm)                                  |                       |
| Evening   |                          | World Café                                      | World Café  | World Café  |                       |
| Venue     | Braunschweig             | Braunschweig                                    | Goslar  | Goslar  | Goslar                |

## Registration

There will be no participation fee in order to encourage young scientists to attend the symposium. The places in the bus on the excursion on September 6, 2019 (starts in Braunschweig, ends in Goslar) are limited and will be reserved in the order of registration. Participants should wear comfortable shoes and bring clothing in line with the actual weather.

Participants register directly with the symposium secretariat not later than **February 28, 2019**: [silvia.haneklaus@julius-kuehn.de](mailto:silvia.haneklaus@julius-kuehn.de)