

CROP.SENSE.net seminar series on “Field phenotyping”

09.06.2015 to 17.06.2015

CROP.SENSE.net is an innovative and interdisciplinary network, which supports and encourages the use of modern sensor technologies for plant field phenotyping.



The intention of the seminar series is to demonstrate challenges and possibilities which are provided by modern, sensor based field phenotyping technologies. Lectures on soil and image analysis, experimental design and data management provide the theoretical fundamentals of this complex topic. We offer practical exercise on gamma spectroscopy, proximal soil sensing and root phenotyping (“shovelomics”).

Intended audience

The lectures will primary oriented to Ph.D. students and early phase post-doctoral researchers with a background in agricultural science, biology or working in the field of plant phenotyping or precision agriculture. Furthermore, all scientists working in related fields are invited. Basic knowledge in plant phenotyping, sensor technology and data management are advantages.

Conditions of participation

Registration is for better planning, necessary.

The practical exercise on gamma spectroscopy, proximal soil sensing and root phenotyping are limited to 15 scientists. Also the field trip to Siebeldingen is limited to 20 participants. The lectures are free and without limit to the number of participants.

[Registration](#) for **field trip** is open until **29.05.2015**.

[Registration](#) for lectures/trainings is open until **03.06.2015**.

Participation fee

CROP.SENSE.net is financially supported by the Ziel2-Programm NRW 2007-2013 “Regionale Wettbewerbsfähigkeit und Beschäftigung” by the Ministry for Innovation, Science and Research (MIWF) of the state North Rhine Westphalia (NRW) and European Union Funds for regional development (EFRE). The lectures are free.

Field trip to Siebeldingen:

- 20 € (accommodation expenses and meals, pay in cash on location)

Contact

Content related questions:

Prof. Dr. Jens Léon (j.leon@uni-bonn.de)

Prof. Dr. Uwe Rascher (u.rascher@fz-Jülich.de)

CROP.SENSE.net Coordination Office:

Melanie Herker (m.herker@uni-bonn.de)

<http://www.cropsense.uni-bonn.de/veranstaltungen>



REGISTRATION

Wednesday, 10.06.2015 – Plant modeling

| Time | Theme | Lecturer | Place |
|---------------|----------------|------------------------------|----------------------|
| 09:00 - 09:45 | “3D-Modelling” | Stefan Paulus; LemnaTec GmbH | HS VIII ¹ |

Thursday, 11.06.2015 - Statistics & Experimental design

| Time | Theme | Lecturer | Place |
|---------------|--|--|----------------------|
| 09:00 - 12:00 | Data management & Software solutions | Svenja Diehl; Kenomx Data Solutions GmbH | HS VIII ¹ |
| 12:15 - 14:00 | LUNCH | | |
| 14:00 - 15:00 | “Formulating mixed linear mixed models for randomized experiments” | | |
| 15:00 - 15:15 | BREAK | Hans-Peter Piepho; Institute of Crop Science, Universität Hohenheim | HS V ² |
| 15:15 - 17:00 | Discussion | | |

Friday, 12.06.2015

| | | | |
|---------------|---|-------------------------------|-------------------|
| 12:00 - 13:00 | “Green revolution versus blue revolution - a future perspective of genetic resources” | Ali Naz; INRES Plant breeding | HS V ² |
|---------------|---|-------------------------------|-------------------|

¹ Meckenheimer Allee 172, 53115 Bonn

² Katzenburgweg 5, 53115 Bonn

Tuesday, 16.06.2015 - Trip to the institute for Grapevine Breeding, Siebeldingen

| Time | Theme | Lecturer | Place |
|---------------|--|----------------------------|---------------|
| 09:00 - 12:00 | Departure to Siebeldingen ³ | | |
| 12:30 - 14:00 | Lunch | Catering Rebmann im Casino | Geilweilerhof |
| 14:00 - 15:15 | Welcome / Guided tour | Prof. Dr. Töpfer | |
| 15:15 – open | Wine tasting | Prof. Dr. Töpfer | |

Wednesday, 17.06.2015 – Grapevine field phenotyping

| | | | |
|---------------|---------------------|---------------|-----------------|
| 09:00 - 09:30 | Phenotyping | Anna Kicherer | Conference room |
| 09:30 – 14:00 | Sensor presentation | Anna Kicherer | |
| 15:00 | Departure to Bonn | | |

³ Julius Kühn Institute (JKI), Federal Research Centre for Cultivated Plants, Geilweilerhof