

58th Annual conference 2026 of the German Society of Plant Nutrition (DGP)

Hochschule Geisenheim University
September 14 - 16, 2026

Program



Organizing committee at the Hochschule Geisenheim University:

Department for Plant Nutrition and Soil Science

Christoph-Martin Geilfus, Leonie Dries, Joschua Göttmann, Ruth Lehnart

Department for Plant Microbiomics

Davide Francioli



Venue



General Information

Registration

The registration desk is located in the foyer of the Hochschule Geisenheim University Building 5925 (Von-Lade-Str. 1). Please register before attending the conference. Registration will be open throughout the conference.

Conference language

The conference language is English. Only the members' meeting of the German Society of Plant Nutrition (DGP) will be held in German.

Wi-Fi Access:

Conference Wi-Fi access is provided free of charge at the venue by the Hochschule Geisenheim University, you can connect using the credentials below:

Username: ticket15945

Password: ya5h3



Conference Dinner

If you are registered for the conference dinner, please select your preferred menu in advance using the selection form and submit it at the registration desk by Monday evening.

Conference Agenda

Early Arrival - Sunday, September 13

17 - 19 h

Icebreaker Wine & Snacks

Location:
Hochschule Geisenheim University
Building 5925, Foyer
Von-Lade-Str. 1
65366 Geisenheim

Day 1 - Monday, September 14

09:00		Registration open	
10:30		Welcome address	
Session 1 Chair: Christoph-Martin Geilfus			
11:00	K1	Giuseppe Colla	Plant biostimulants as a promising sustainable tool to improve nutrient use efficiency and crop quality
11:40	T1	Ali Malakshahi Kurdestani	Biostimulant efficacy for phosphorus acquisition in maize varies with recycled P fertilizer
12:00	T2	Sabine von Tucher	Evaluation of the zinc and boron fertilizer recommendations to maize tested at a field site in the Munich gravel plain
12:20	T3	Katharina Markmann	Global integrators of light signalling and nutrient homeostasis safeguard symbiosis under light stress
12:40	Light Lunch in the foyer		
Session 2 Chair: Hans Werner Olfs			
13:50	K2	Claudia Kammann	Biochar use in soils and fertilizers to decrease nitrate leaching and nitrous oxide emissions
14:30	T4	Henrike Mielenz	Nitrogen in German agriculture: balancing food security with environmental sustainability
15:10	T5	Markus Weinmann	Long-term field evidence linking soil organic matter, soil health and crop resilience
15:30	T6	Lukas Kehm	Improving plant Si availability of diatomaceous earth materials through alkaline treatments

K = Keynote - 40 min (30 + 10)

T = Talk - 20 min (15 + 5)

Day 1 - Monday, September 14

15:50 *Coffee, Posters & Snacks (even numbers)*

Session 3 Chair: Britta Pitann

16:40	T7	Beril Ustunkaya	Wearable nanoporous gold-based sensor for potassium monitoring in plants
17:00	T8	Johanna Marie Lass	Physiological effects of foliar-applied magnesium salts on leaf apoplastic pH and stomatal regulation
17:20	T9	Esther Schulz	Uptake and translocation of foliar-applied iron in broccoli
17:40	T10	Tabea Selzer	Not accounting for biomass dilution by SiO ₂ leads to the misinterpretation of the plant nutritional status in silicon trials
18:00	<i>End</i>		

18:30

Members' meeting of the German Society of Plant Nutrition (DGP)

members only

Location: Building 5925, HS 50

Snacks and drinks will be provided (for members only)

Day 2 - Tuesday, September 15

08:30		Registration open	
Session 4 Chair: Uwe Ludewig			
09:00	K3	Alexis De Angeli	Cracking the vacuolar malate and fumarate transport in Arabidopsis, from structure to physiology
09:40	T11	Namrah Ahmad	Vicia faba guard cells display selective nitrate uptake during stomatal opening
10:00	T12	Andriele Wairich	OsDODA1 modulates development and iron deficiency responses in rice
10:20	T13	Lin-Bo Wu	Early stomatal avoidance mitigates iron toxicity by protecting photosynthetic machinery and pigment composition in rice
10:40	Coffee, Posters & Snacks (uneven numbers)		
Session 5 Chair: Sabine von Tucher			
11:40	T14	Elke Bloem	A mixed blessing: Clean Air Act to improve forest health have reduced the sulfur availability in beech trees
12:00	T15	Patrick Lehr	The role of sulfur in regulating water use efficiency and metabolic acclimation to drought
12:20	T16	Muna Abdalla	ZIP transporters modulation by selenium facilitates divalent metal translocation in maize under sulfate salinity

Day 2 - Tuesday, September 15

12:40

Light Lunch in the foyer

Session 6 Chair: Patrick Bienert

14:00	T17	Yeshambel Emewodih Mihiret	Comprehensive investigation of nutrient deficiency and elemental toxicity reveals extensive nutrient interactions and identifies unique and co-regulated genes in barley
14:20	T18	Franziska Daamen	Impact of the Golgi apparatus on cellular calcium-mediated stress responses
14:40	T19	Lukas John	Natural variation in reproductive heat tolerance of quinoa revealed by deep learning-based phenotyping and genome-wide association mapping

15:00

Coffee, Posters & Snacks (even numbers)

Session 7 Chair: Sandra Schmöckel

15:50	T20	Matthias Wiggerhauser	The function of thiols to separate cadmium from zinc in soil-crop systems
16:10	T21	Shiwei Li	Zeolite amendment to biogas digestate and cattle slurry reduces gaseous nitrogen losses and stabilizes nitrogen supply to silage maize
16:30		Group photo	

16:45

End

18:00

Conference Dinner

registered participants only

Weingut Magdalenenhof

Marienthaler Str. 90

65385 Rüdesheim am Rhein

How to get there?

- Walking distance
2.2 km (approximately 30 min)
- by car
7 min
- public transport
(From "Ursulinen, Geisenheim"
to "Rüdesheim (Rhein) Winzerweg")

K = Keynote - 40 min (30 + 10)

T = Talk - 20 min (15 + 5)

Day 3 - Wednesday, September 16

<i>Session 8 Chair: Davide Francioli</i>			
09:00	K4	Stefano Cesco	Plant mineral nutrition from mechanisms to the rhizosphere: what changes when soil and microorganisms enter the picture?
09:40	T22	Katharine Jäger	Long-term biochar effects on soil organic carbon and microbial nutrient-cycling indicators in temperate arable and grassland soils
10:00	T23	Niels Maywald	Proteomic insights into plant and bacterial metabolism during the common bean- <i>Rhizobium</i> symbiosis under external nitrogen availability
10:20	T24	Gabriel Schaaf	Inositol pyrophosphate signalling links phosphate sensing and arbuscular mycorrhizal symbiosis in <i>Lotus japonicus</i>
10:40	T25	Jose Colmenero-Flores	Chloride: from plant micronutrient to beneficial macronutrient
11:20	<i>Coffee, Posters & Snacks (uneven numbers)</i>		
12:20		Poster awards	
		Farewell address	
13:00	<i>End</i>		

13:00

Optional

Lab tour introducing our institute, the Department of Soil Science and Plant Nutrition at Hochschule Geisenheim University.

If you would like to participate, please register at the registration desk.