



UNIVERSITY OF  
HOHENHEIM



AMAIZE-P

## Fourth Block Seminar of the 3<sup>rd</sup> Cohort

### P Nutrition and recovery

16-22 March 2026



**Sino-German International Research Training Group**

**AMAIZE-P**

中德国际研究培训项目

**Adaptation of maize-based food-feed-energy systems  
to limited phosphate resources**

粮食-饲料-能源玉米生产系统磷资源高效利用

Funded by

**DFG**

Deutsche  
Forschungsgemeinschaft  
German Research Foundation

**Thursday 12 March 2026: Arrival of German side PhD students in Beijing**

**Sunday, 15 March 2026 Arrival of German PIs and senior scientists**

**Monday, 16 March 2026: Fourth block seminar of IRTG AMAIZE-P (Day 1)****Venue: Meeting room 5-318, Zihuan Building, China Agricultural University, Beijing****Opening Ceremony - Welcome addresses**

Chairpersons: Prof. Dr. Xuejun Liu, Dr. Marco Roelcke

<b>Time</b> Beijing time	<b>Content</b>	<b>Speakers</b>	<b>Title/organization</b>
09:15-09:20	Welcome address from Dean of College	Prof. Dr. Lixing Yuan	Dean, College of Resources & Environmental Sciences, China Agricultural University (CAU)
09:20-09:30	Welcome address from Deputy Spokespersons of IRTG AMAIZE-P	Prof. Dr. Joachim Müller Prof. Dr. Xuejun Liu	Deputy Spokesperson, University of Hohenheim (UHOH) Deputy Spokesperson, CAU

**Academic Session I: Presentations by invited speakers**

Chairpersons: Assoc. Prof. Dr. Tao Zhang, Dr. Gero Becker

09:30-10:30	Mineral-Mediated Phosphorus Activation and Recovery	Assoc. Prof. Dr. Bing Li	Shenzhen International Graduate School, Tsinghua University
10:30-11:00	Group photo Coffee break CAU		
Chairpersons: Prof. Dr. Zhongtao Jia, Prof. Dr. Waltraud Schulze			
11:00-12:00	Rooted in Ingenuity: How Plants Hack the Phosphorus Cycle	Prof. Dr. Susanne Schmidt	University of Queensland, Australia
12:00-14:00	Lunch break at CAU		

<b>Venue: Meeting room 5-318, Zihuan Building, China Agricultural University, Beijing</b>			
<b>Beijing time</b>	<b>Content</b>	<b>Speakers</b>	<b>Organization</b>
<b>Academic Session II: Presentation by invited speaker</b>			
Chairpersons: Prof. Dr. Xuejun Liu, Mr. Ali Kurdestani			
14:00-14:45	Benefits of intercropping: improved symbiotic N <sub>2</sub> fixation, P use efficiency and soil fertility	Prof. Dr. Long Li	College of Resources and Environmental Sciences (CRES), CAU
<b>Session III: Presentations by (post-)doctoral researchers 1, including synthesis approach</b>			
Chairpersons: Prof. Dr. Wenfeng Cong, Dr. Christian Sponagel			
14:45-15:25	Ms. Jiale Yang Ms. Wanqing Li Mr. Feiyu Ying Mr. Zhiwei Sun	RS 4.3 RS 4.1 RS 4.2	China Agricultural University (CAU)
15:25-16:00	Mr. Mamadou Jallow Mr. Pascal Wendel Ms. Dr. Michelle Herrmann	RS 4.3 RS 4.1 RS 4.2	University of Hohenheim (UHOH)
16:00-16:25	Coffee/tea break		
<b>Session IV: Presentations by (post-)doctoral researchers 2</b>			
Chairpersons: Assoc. Prof. Dr. Tao Zhang, Prof. Dr. Joachim Müller			
16:25-16:50	Ms. Tianyi Liu Ms. Sepideh Sadighbathi	RS 3.1	CAU UHOH
16:50-17:15	Mr. Ruochen Yang Ms. Dokyung Lee	RS 3.2	CAU UHOH
17:15-17:40	Ms. Tiantian Qi Ms. Kea Purwing	RS 3.3	CAU UHOH
17:40-18:05	Ms. Minglu Zhang Ms. Leiddi Laura Maria Leal	RS 3.4	CAU UHOH
18:30-20:30	Dinner and meetings of Chinese and German Research Subject partners (self-organized by Research Groups)		

ZOOM Meeting Day 1 (16 March): 01:00 h CET, 08:00 h Beijing time  
<https://uni-hohenheim.zoom-x.de/j/68448391639?pwd=IPGYfiRhtmH0R4wqoOguk2Y86TMBY6.1>  
Meeting ID: 684 4839 1639  
Passcode: Acjg4f

<b>Tuesday, 17 March 2026: Fourth block seminar of IRTG AMAIZE-P (Day 2)</b>			
<b>Venue: Meeting room 5-318, Zihuan Building, China Agricultural University, Beijing</b>			
<b>Beijing time</b>	<b>Content</b>	<b>Speakers</b>	<b>Organization</b>
<b>Academic Session I - Presentations by invited speakers</b>			
Chairpersons: Prof. Dr. Jianfen Liang, Dr. Michelle Herrmann			
09:15-10:15	Rice nutritional improvement through genetic studies and processing technology	Prof. Dr. Chunming Liu	Yihai-Kerry Wilmar R&D Center Shanghai, Peking University
10:15-10:45	Coffee/tea break		
10:45-11:45	Long-Term Experiments: Musings on the Future as seen from the Past	Adjunct Prof. Dr. JK Ladha	University of California, Davis, USA
11:45-12:00	General Discussion		
12:00-14:00	Lunch break at CAU		
<b>Academic Session II: Presentation by invited speaker</b>			
Chairpersons: Prof. Dr. Jianbin Guo, Dr. Christian Sponagel			
14:00-14:50	Energy, exergy, exergo-economic and exergo-environmental analyses of biomass heating systems for rural households: A case study in Northeastern China	Prof. Dr. Yuguang Zhou	College of Engineering, CAU
<b>Session III: Presentations by (post-)doctoral researchers 3</b>			
Chairpersons: Assoc. Prof. Dr. Tao Zhang, Prof. Dr. Joachim Müller			
14:50-15:15	Mr. Zhen Chen Mr. Chieh-Fu Hsiao	RS 2.1	CAU UHOH
15:15-15:55	Ms. Nan Wang Ms. Afsaneh Yousefi Mr. Fucheng Gao	RS 2.2	Southwest University UHOH CAU
08:15-08:55	(CET) Ms. Fatima Jafri (online)		UHOH
15:55-16:20	Coffee/tea break		
<b>Session IV: Presentations by (post-)doctoral researchers 3 (contd.)</b>			
Chairpersons: Assoc. Prof. Dr. Tao Zhang, Prof. Dr. Joachim Müller			
16:20-16:45	Mr. Saike Jiang Mr. Khandoker Tanjim Ahammad	RS 2.3	CAU UHOH
16:45-17:20	Ms. Xiangyu Qian Ms. Jingwen Cheng Ms. Huiyan Wang	RS 2.4	CAU CAU UHOH
17:20-17:35 10:20-10:35	Ms. Nasim Gandomdoust (online) (CET)	RS 1.3	UHOH
18:00-20:00	<b>Official buffet dinner: 3rd floor at Yiyuan restaurant, CAU West Campus</b>		

ZOOM Meeting Day 2 (17 March): 01:00 h CET, 08:00 h Beijing time  
<https://uni-hohenheim.zoom-x.de/j/62021805990?pwd=5n4GKMzMB3olAqa8PTR4aSgGITQwg.1>  
Meeting ID: 620 2180 5990  
Passcode: DJ9D9c

**Wednesday, 18 March 2026: Fourth block seminar of IRTG AMAIZE-P (Day 3)**

**Venue: Meeting room 5-318, Zihuan Building, China Agricultural University, Beijing**

Chairpersons: Assoc. Prof. Dr. Shimeng Huang, Dr. Maciej Olszewski

Beijing time	Content	Speakers	Organization
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**Session I: Presentation by invited speaker**

09:15-10:15	Developing phytase as a most popular enzyme in animal feed	Prof. Dr. Xiaoyun Su	Beijing Institute of Animal Husbandry and Veterinary Medicine, Chinese Academy of Agricultural Sciences (CAAS)
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10:15-10:40	Coffee/tea break		
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**Session II: Presentations by (post-)doctoral researchers 4**

Chairpersons: Prof. Dr. Lixing Yuan, Prof. Dr. Waltraud Schulze

10:40-11:05	Ms. Ying Lu Ms. Wanda Haller	RS 1.1	CAU UHOH
11:05-11:30	Mr. Bo Yang Ms. Pia Engl	RS 1.2	CAU UHOH
11:30-11:55	Ms. Lianlian Liu	RS 1.3	CAU

12:00-14:00	Lunch break at CAU		
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**Venue: Meeting room 5-318, Zihuan Building, China Agricultural University, Beijing**

**Parallel Session III: Educational content for German and Chinese doctoral researchers**

14:00-16:30	Finding the story in your data and communicating it	Prof. Dr. Susanne Schmidt	University of Queensland, Australia
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**Venue: Meeting room 5-206, Zihuan Building, China Agricultural University, Beijing**

**Parallel Session IV: AMAIZE-P Advisory Board Meeting (hybrid)**

14:00-15:00	including Chinese and German Principal Investigators and Senior Researchers.		
07:00-08:00 (CET)	Chairpersons: Prof. Torsten Müller, Prof. Lixing Yuan Agenda t.b.d. by Advisory Board		

**Plenary Discussion**

15:00-16:30	Chairpersons: Prof. Dr. Wenfeng Cong, Dr. Marco Roelcke		
08:00-09:30 (CET)	Plenary Discussion (incl. next Block Seminar in Hohenheim, Chinese delegation visit, etc.)		

16:30-16:50	Coffee/tea break		
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**Venue: Meeting room 5-318, Zihuan Building, China Agricultural University, Beijing**

**Session V: Closing ceremony**

16:50-17:00	Chairpersons: Prof. Dr. Lixing Yuan, Dr. Marco Roelcke		
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18:00-19:30	Dinner and meetings of Chinese and German Research Subject partners (self-organized by Research Groups)		
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ZOOM Meeting Day 3 (18 March): 01:00 h CET, 08:00 h Beijing time  
<https://uni-hohenheim.zoom-x.de/j/63664613214?pwd=QDZTr9aof5b1RLoMTZtLaQklr0nCKX.1>  
 Meeting ID: 636 6461 3214  
 Passcode: HT2b1w

## Excursion to Jingwa Agricultural S&T Innovation Center (Pinggu)

Thursday, 19 March 2026: Fourth block seminar of IRTG AMAIZE-P (Day 4)

**Departure: 07:40 AM dedicated coach from CAU West Campus, departure: 07:50 AM from *langlizi* hotel:**

**Departure: 08:00 AM dedicated coach from CAU East Campus:**

**Group transportation (two coaches) to Beijing Jingwa Agricultural Science&Technology Innovation Center (Yuda Street No. 1, Yuzhen Town, Pinggu District), with synchronized arrival at 09:40 AM**

Beijing time	
10:00-12:00	Visit to Beijing Jingwa Agricultural Science&Technology Innovation Center
12:00-13:00	Lunch in village restaurant (pro-ordered)
14:00-16:30	"Smart orchard" and College of Agricultural Unmanned System, CAU
16:30-17:50	Return journey to CAU
18:00-20:00	Dinner (self-organized)

## Excursion to Sanya (Hainan province)

Friday, 20 March 2026: Fourth block seminar of IRTG AMAIZE-P (Day 5)

Departure: 04:30 AM by minibus from CAU West Campus, 04:45 AM minibus from Langlizi Hotel to Beijing Capital Airport (T 3).

Departure: 05:00 AM CAU East Campus to Beijing Capital Airport (T 3)

Beijing time	
07:10-11:15	Flight CA 1369 from Beijing to Sanya
11:00-11:40	Pick-up from airport by bus to Sanya Experimental Station
12:20-13:30	Lunch at Yanxue Valley
13:30-14:30	Check into Citadines Yazhou Bay Sanya (Xingle Ting) hotel and noon break
14:30-17:30	Visit Research Center of the Science and Technology Park
18:00-20:00	Dinner and beers at the Experimental Station
Stay overnight at Citadines Yazhou Bay Sanya (Xingle Ting) hotel	

## Excursion to Sanya (Hainan province)

Saturday, 21 March 2026: Fourth block seminar of IRTG AMAIZE-P (Day 6)

Venue: Citadines Yazhou Bay Sanya (Xingle Ting) hotel

Beijing time	
07:30-08:00	Breakfast
08:00-10:30	Coach transfer to Xinglong Botanical Garden
10:30-12:00	Guided tour of Xinglong Botanical Garden
12:00-14:00	Lunch (at nearby restaurant)
14:00-14:30	Coach transfer to Damao Science and Technology Village
14:30-17:00	Visit to Damao Science and Technology Village
17:00-17:30	Coach transfer back to hotel
17:30-18:30	Dinner (at nearby restaurant)
Stay overnight at Citadines Yazhou Bay Sanya (Xingle Ting) hotel	

## Excursion to Sanya (Hainan province):

Sunday, 22 March 2026: Fourth block seminar of IRTG AMAIZE-P (Day 7)

Venue: Citadines Yazhou Bay Sanya (Xingle Ting) hotel

Beijing time	
08:00-08:30	<b>Check out of guest house</b>
07:00-08:00	Breakfast
08:30-11:30	Visit to Daxiaodongtian (Fairylane of Nanshan) / Scenic tour of Daxiaodongtian
11:30-12:00	Return to Yanxue Valley (Research and Study Valley)
12:00-14:00	Lunch at Yanxue Valley
14:00-14:30	Coach transfer to Durian Science and Technology Backyard
14:30-16:45	Tour of Durian Science and Technology Backyard
16:45-17:10	Travel to airport for air transportation
18:50-22:40	<b>Flight CA 1378 from Sanya to Beijing Capital Airport (T 3)</b>
22:40	Arrival at Beijing capital airport (T 3)
<b>Return to hotel or proceed directly to the departure terminal</b> (the guests and/or PIs will be picked up by minibus)	

Monday, 23 March 2026:

Departure of most German PIs and Senior Scientists

Departure of part of German side PhD students

## Short biographical profiles of invited speakers



### **Professor Dr. J.K. Ladha**

Adjunct Professor  
Department of Plant Sciences  
University of California, Davis, USA  
E-mail: [jkladha@ucdavis.edu](mailto:jkladha@ucdavis.edu)

**Biographical Sketch:** Prof. J.K. Ladha devoted more than 35 years to aspects of sustainable management of agriculture and natural resources for increasing food security and environmental quality in developing countries. He served at the International Rice Research Institute (IRRI) from 1980 to 2017 as an adjunct senior scientist at the Columbia University until 2016. Currently, he is an Adjunct Professor in the Dept of Plant Sciences at the University of California-Davis. Dr Ladha provided leadership to the Cereal System Initiative System for South Asia and the Rice-Wheat Consortium Project that aims to sustainably enhance the crop productivity. He was a “Frosty” Hill Fellow at Cornell University (July 07–June 08) and an adjunct professor of Soil Science at the University of the Philippines (1990-2004).

Professor Ladha is a fellow of the American Association for the Advancement of Science (AAAS), American Society of Agronomy (ASA), the Soil Science Society of America (SSA), the Crop Science Society of America (CSSA), the Indian Academy of Agricultural Sciences (NAAS), and an associate member of the Philippine Council of Agricultural Research (PARC). He is a recipient of several awards and honors notably, the Third World Academy of Sciences Agriculture Prize 2016, the International Crop Science Award 2015, the International Service in Agronomy Award 2011, International Soil Science Award 2010, International Plant Nutrition Institute Science Award 2009. In 2000 and 2004, the CGIAR awarded the Chairman’s Excellence Science Award for Outstanding Scientific Partnership and the prestigious King Baudoin Award for Outstanding Research to the Rice-Wheat Consortium in which Professor Ladha was the key scientist and IRRI’s coordinator. Recently, on the Fifteenth day of October of 2024, Professor Ladha was conferred with Honorary Degree of Doctor of Science by Rajmata Vijayaraje Scindina Agriculture University, Gwalior, India.



**Professor Dr. Bing Li**

Associate Professor

Shenzhen International Graduate School

Tsinghua University, Shenzhen, CHINA

E-mail: [li.bing@sz.tsinghua.edu.cn](mailto:li.bing@sz.tsinghua.edu.cn)

**Biographical Sketch:** Prof. Dr Bing Li is an associate professor at Tsinghua University, Shenzhen International Graduate School. His research and teaching experience spread across phosphorus cycling and recovery. He is a winner of the Environmental Technology Progress Award (2/14), and a managing editor for *Regional Studies in Marine Science*, an associate editor for *Journal of Hydrology* and the deputy director of Comprehensive Energy Expert Group of China Energy Association, the deputy director of expert committee of Guangdong Ecological Landscape and Coastal Wetland Engineering Technology Research Center.

To date, he has published more than 90 journal papers and delivered 17 conference presentations. His five-year Google Scholar Citation is over 3600, H-index is 36, with four of them being selected as ESI hot and highly cited papers, and one paper has been reported by European Sustainable Phosphorus Platform.



**Professor Dr. Long Li**

Department of Agricultural Ecology  
College of Resources and Environmental Sciences (CRES)  
China Agricultural University (CAU), Beijing, CHINA  
E-mail: [lilong@cau.edu.cn](mailto:lilong@cau.edu.cn)

**Biographical Sketch:** Prof. Dr. Long Li is a Level-2 Professor and a doctoral supervisor at China Agricultural University. He obtained his PhD degree from China Agricultural University and has been engaged in research on resource-efficient utilization and long-term effects of intercropping systems. He has presided over multiple national-level projects including NSFC Key Programs, National 973 Program, and National Key R&D Program, as well as international cooperation projects with Germany and the European Union.

He has published over 200 papers in top-tier journals such as PNAS, Nature Sustainability, and Trends in Ecology & Evolution, and authored the monograph Ecological Principles and Applications of Biological Nitrogen Fixation in Legume-based Intercropping Systems. He was recognized as Elsevier Highly Cited Chinese Researcher (Ecology) from 2020 to 2024, and received one National Science and Technology Progress Award and six provincial/ministerial-level awards. He formerly served as FAO Agricultural Ecology Consultant (2017) and currently serves on the editorial boards of Plant and Soil, Ecosphere, and Farming Systems.



**Professor Dr. Chun-Ming Liu**

Director, Yihai-Kerry Wilmar R&D Center  
Shanghai, CHINA

E-Mail: [liuchunming@pku.edu.cn](mailto:liuchunming@pku.edu.cn)

**Biographical Sketch:** Dr. Chun-Ming Liu is currently the Director of Yihai-Kerry Wilmar R&D Center, located in Shanghai. He received his PhD at John Innes Centre, UK, in 1996, did postdoctoral studies in Oklahoma State University from 1996-1999, and worked as a Section Leader at Plant Research International, Wageningen UR from 1999 to 2005, as a professor in the Institute of Botany, Chinese Academy of Sciences (CAS) from 2005 to 2016, as the Director General/Professor for the Institute of Crop Sciences, Chinese Academy of Agricultural Sciences (CAAS), from 2016 to 2020, and then the Dean/Professor for the School of Advanced Agricultural Sciences, Peking University from 2020 to 2024. He has been served as Vice-President for Chinese Society of Cell Biology from 2007 to 2016, and Vice President for Chinese Society of Crop Sciences from 2016 to 2022. He also served as the Chief-Editor for Journal of Integrative Plant Biology (JIPB) from 2007-2016, and currently the Field Chief Editor for Frontiers in Plant Sciences.

Dr. Chun-Ming Liu has long been working in the area of seed biology, with attentions to embryo and endosperm development. In recent years his research is focused on rice nutrition improvement. He has published over 150 SCI papers in journals including PNAS, Plant Cell, Plant Physiology, Cell Research, and Annual Review of Plant Biology.



**Honorary Professor Dr. Susanne Schmidt**

School of Agriculture and Food Sciences  
University of Queensland, Brisbane, Australia  
E-mail: [susanne.schmidt@uq.edu.au](mailto:susanne.schmidt@uq.edu.au)

**Biographical Sketch:** Prof. Susanne Schmidt is an internationally recognised scientist and educator at The University of Queensland whose research advances plant–soil–microbe–food interactions for sustainable agriculture and the circular nutrient economy. She holds a PhD in Botany from The University of Queensland and graduated in Agricultural Biology from the University of Hohenheim.

Professor Schmidt has served on high level governance and advisory bodies, including the Australian Research Council (ARC) College of Experts and FAO, the Ecosystem Science Council of Australia, and as editorial advisor for leading plant biology journal ‘New Phytologist’. She has received awards for excellence in postgraduate education, recognising her commitment to research training and mentoring future scientists. She is a Fellow of the prestigious Alexander von Humboldt Foundation.

With over 12,600 citations and an h index of 62, she has pioneered understanding of plant acquisition of organic nutrients and soil microbial processes. Her discoveries include that plants can use organic nitrogen and phosphorus sources, advancing understanding of rhizosphere ecology and nutrient cycling. She has developed methodologies to analyse soil microbial communities, track nutrient fluxes in soil, and visualise the uptake of organic nutrients into plant cells. Susanne connect fundamental knowledge to practical outcomes on farms.

Her interdisciplinary research improves sustainability and production of tropical agroecosystems and biogeochemical stewardship, including development of next generation fertilisers from recycled organic materials that boost nutrient efficiency and recarbonise soils. Her current research spans environmentally-responsive nitrogen fertilisers, economics of efficient nutrient use, Indigenous led native food systems, and smart compost formulations. Her ongoing collaboration with Chinese researchers explore the benefits of organic substitution of mineral fertilisers, quantifying the benefits for yield, soils and greenhouse gas footprint.



**Professor Dr. Xiaoyun Su**

Beijing Institute of Animal Husbandry and Veterinary Medicine  
Chinese Academy of Agricultural Sciences (CAAS)

E-mail: [suxiaoyun@caas.cn](mailto:suxiaoyun@caas.cn)

**Biographical Sketch:** Prof. Dr. Xiaoyun Su, born in 1979, is a Level-3 Professor and a doctoral supervisor. He obtained a bachelor's degree from Southwest Agricultural University (2000), a master's degree from Nanjing Agricultural University (2003), and a PhD degree from the Institute of Microbiology, Chinese Academy of Sciences (2009). From 2009 to 2012, he conducted postdoctoral research at the University of Illinois, USA; from 2012 to 2014, he was a research scientist at the Agency for Science, Technology and Research in Singapore. From 2014 to 2020, he worked at the Institute of Feed Research, Chinese Academy of Agricultural Sciences, and since 2020, he has been working at the Beijing Institute of Animal Husbandry and Veterinary Medicine, Chinese Academy of Agricultural Sciences.

His main research is on feed enzymes, and he is currently a key expert in the Microbiology and Enzyme Engineering Innovation Team. He has been honoured as a National Ten Thousand Plan Science and Technology Innovation Leader, Shennong Youth Talent, Leading Talent in Agricultural Sciences of the Chinese Academy of Agricultural Sciences, and Youth Talent of the Chinese Academy of Agricultural Sciences.



**Professor Dr. Yuguang Zhou**

College of Engineering

China Agricultural University (CAU), Beijing, CHINA

E-mail: [zhouyg@cau.edu.cn](mailto:zhouyg@cau.edu.cn)

**Biographical Sketch:** Prof. Dr. Yuguang Zhou is a Professor and a doctoral supervisor at the College of Engineering, China Agricultural University. He obtained a bachelor's degree from the College of Engineering, China Agricultural University (2005), and a PhD degree from the College of Engineering, China Agricultural University (2010). From 2010 to 2013, he worked as a Lecturer at the College of Engineering, China Agricultural University; from 2013 to 2024, he worked as an Associate Professor at the same institution; and since

December 2024, he has been working as a Professor at the College of Engineering, China Agricultural University.

His main research is on agricultural biomass feedstock utilization, clean combustion of biofuel, and bioenergy engineering equipment, and he is currently a key expert in the Bioenergy and Environmental Science and Technology Laboratory. He serves as Executive Secretary of ISO/TC255 (Biogas) Chinese Secretariat, Chinese Expert of ISO/TC285 (Clean Cookstoves), and Expert of Environment Product Declaration (EPD) System. He has been honoured as a Council Member of Beijing Society of Agricultural Engineering, Biomass Column Editor of International Journal of Agricultural & Biological Engineering, and Editorial Board Member of AgriEngineering.

## **Participants List**

### **Invited guests**

1. Ms. Ying Tang, Director, International Office, China Agricultural University (CAU)

### **Invited speakers**

2. Adjunct Prof. Dr. Jagdish Kumar Ladha, University of California, Davis, USA
3. Assoc. Prof. Dr. Bing Li, Institute for Ocean Engineering, Tsinghua University, Beijing
4. Prof. Dr. Long Li, College of Resources and Environmental Sciences (CRES), CAU
5. Prof. Dr. Chunming Liu, Yihai-Kerry Wilmar R&D Center, Shanghai; Peking University, Beijing
6. Prof. Dr. Susanne Schmidt, University of Queensland, Brisbane, Australia
7. Prof. Dr. Xiaoyun Su, Beijing Institute of Animal Husbandry and Veterinary Medicine, Chinese Academy of Agricultural Sciences (CAAS), Beijing
8. Prof. Dr. Yuguang Zhou, College of Engineering, CAU, Beijing

### **Chinese Side**

9. Prof. Dr. Fusuo Zhang, Academician, IRTG Spokesperson, National Academy of Agriculture Green Development, China Agricultural University (CAU)
10. Prof. Dr. Lixing Yuan, Dean, College of Resources and Environmental Sciences (CRES), China Agricultural University (CAU)
11. Prof. Dr. Xuejun Liu, IRTG Deputy Spokesperson, Coordinator, CRES, CAU
12. Prof. Dr. Wenxin Liu, College of Agronomy and Biotechnology, CAU
13. Prof. Dr. Zhongtao Jia, CRES, CAU
14. Prof. Dr. Lin Zhang, CRES, CAU
15. Prof. Dr. Xinping Chen, College of Resources and Environment, Southwest University (SWU), Chongqing
16. Prof. Dr. Huaiyu Yang, College of Resources and Environment, Southwest University (SWU), Chongqing
17. Prof. Dr. Huafen Li, CRES, CAU
18. Prof. Dr. Chunqin Zou, CRES, CAU
19. Prof. Dr. Xuexian Li, CRES, CAU
20. Prof. Dr. Pu Wang, College of Agronomy and Biotechnology, CAU
21. Prof. Dr. Shunli Zhou, College of Agronomy and Biotechnology, CAU
22. Prof. Dr. Xiongkui He, College of Science, CAU
23. Prof. Dr. Jianfen Liang, College of Food Science and Nutritional Engineering, CAU
24. Prof. Dr. Qiugang Ma, College of Animal Science and Engineering, CAU
25. Prof. Dr. Jianbin Guo, College of Engineering, CAU
26. Prof. Dr. Ji Ma, College of Economics and Management, CAU
27. Prof. Dr. Wenfeng Cong, CRES, CAU
28. Prof. Dr. Laping Wu, College of Economics and Management, CAU
29. Prof. Dr. Gu Feng, CRES, China Agricultural University
30. Prof. Dr. Zhenling Cui, CRES, China Agricultural University
31. Prof. Dr. Jianbo Shen, CRES, CAU
32. Prof. Dr. Yong Hou, CRES, CAU

33. Prof. Dr. Lingyun Cheng, CRES, CAU
34. Assoc. Prof. Dr. Sen Yang, CRES, CAU
35. Assoc. Prof. Dr. Tao Zhang, CRES, CAU
36. Assoc. Prof. Dr. Yanan Wan, CRES, CAU
37. Assoc. Prof. Dr. Xiaoqiang Jiao, CRES, CAU
38. Assoc. Prof. Dr. Shubing Huang, College of Agronomy and Biotechnology, CAU
39. Assoc. Prof. Dr. Wei Zhang, College of Resources and Environment, SWU
40. Assoc. Prof. Dr. Shimeng Huang, College of Animal Science and Engineering, CAU
41. Dr. Zihan Wang, Post-doctoral researcher, CRES, CAU
42. Ms. Dr. Fangfang Ning, Henan Academy of Agricultural Sciences, Zhengzhou, China
43. Ms. Dr. Ruotong Si, Henan Finance University, Zhengzhou, China

44. Ms. Yueli Wang, Doctoral researcher on Chinese side, RS 1.1
45. Ms. Ying Lu, Doctoral researcher on Chinese side, RS 1.1
46. Mr. Bo Yang, Doctoral researcher on Chinese side, RS 1.2
47. Ms. Lianlian Liu, Doctoral researcher on Chinese side, RS 1.3
48. Mr. Zhen Chen, Doctoral researcher on Chinese side, RS 2.1
49. Ms. Nan Wang, Doctoral researcher on Chinese side, RS 2.2
50. Mr. Fucheng Gao, Doctoral researcher on Chinese side, RS 2.2
51. Mr. Saikhe Jiang, Doctoral researcher on Chinese side, RS 2.3
52. Ms. Xiangyu Qian, Doctoral researcher on Chinese side, RS 2.4
53. Ms. Jingwen Cheng, Doctoral researcher on Chinese side, RS 2.4
54. Ms. Tianyi Liu, Doctoral researcher on Chinese side, RS 3.1
55. Mr. Ruochen Yang, Doctoral researcher on Chinese side, RS 3.2
56. Ms. Tiantian Qi, Doctoral researcher on Chinese side, RS 3.3
57. Ms. Minglu Zhang, Doctoral researcher on Chinese side, RS 3.4
58. Ms. Wanqing Li, Doctoral researcher on Chinese side, RS 4.1
59. Mr. Feiyu Ying, Doctoral researcher on Chinese side, RS 4.2
60. Mr. Zhiwei Sun, Doctoral researcher on Chinese side, RS 4.2
61. Ms. Jiale Yang, Doctoral researcher on Chinese side, RS 4.3

### **German Side**

62. Prof. Dr. Torsten Müller, IRTG Spokesperson, Institute of Crop Science, University of Hohenheim (UHOH)
63. Prof. Dr. Joachim Müller, IRTG Deputy Spokesperson, Institute of Agricultural Engineering, UHOH
64. Dr. Marco Roelcke, IRTG Coordinator, UHOH
65. Prof. Dr. Tobias Würschum, Institute of Plant Breeding, Seed Science and Population Genetics, UHOH
66. Prof. Dr. Uwe Ludewig, Institute of Crop Science, UHOH
67. Prof. Dr. Waltraud Schulze, Department of Plant Systems Biology, UHOH
68. Prof. Dr. Andreas Schweiger, Institute of Landscape and Plant Ecology, UHOH
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70. Prof. Dr. Jan Frank, Institute of Biological Chemistry and Nutrition, UHOH
71. Prof. Dr. Amélia Camarinha Silva, Institute of Animal Science, UHOH
72. Prof. Dr. Andrea Kruse, Institute of Agricultural Engineering, UHOH
73. Prof. Dr. Enno Bahrs, Institute of Farm Economics, UHOH
74. PD Dr. Andreas Lemmer, State Inst. for Agricultural Engineering and Bioenergy, UHOH

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 80. Dr. Christian Sponagel, Post-doctoral researcher, Institute of Farm Economics, UHOH  
 81. Ms. Dr. Michelle Herrmann, Post-doctoral researcher on German side, RS 4.2  
 82. Dr. Zhong Zhuang, Postdoc, Institute of Landscape and Plant Ecology, UHOH  
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 86. Ms. Nasim Gandomdoust, Doctoral researcher on German side, RS 1.3  
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 90. Mr. Khandoker Tanjim Ahammad, Doctoral researcher on German side, RS 2.3  
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 95. Ms. Leiddi Leal, Doctoral researcher on German side, RS 3.4  
 96. Mr. Pascal Wendel, Doctoral researcher on German side, RS 4.1  
 97. Mr. Mamadou Jallow, Doctoral researcher on German side, RS 4.3

<b>Research subject No.</b>	<b>Title</b>
<b>Subject Area 1</b>	<b>Genetic potential</b>
1.1	Genetic variation, genetic architecture and genomic prediction of P-use-efficiency traits in European and Chinese maize
1.2	Importance of root architecture and rhizosphere-related processes for improving phosphate use efficiency
1.3	Regulatory modules of carbon resource allocation under different phosphate availabilities
<b>Subject Area 2</b>	<b>P Management at field and farm level</b>
2.1	Genotype to phenotype modelling of phosphate acquisition and related biomass and yield traits of maize
2.2	Increasing soil phosphate availability and phosphate fertilizer efficiency
2.3	Detecting phosphate status in soil and in maize canopies by non-invasive methods
2.4	Heavy metals from phosphate fertilizers in maize based food-feed-energy systems
<b>Subject Area 3</b>	<b>P Nutrition and recovery</b>
3.1	Impact of reduced-phosphate-availability on essential micronutrients in maize for human consumption
3.2	Inositol phosphates in the digestive tract and phosphate utilisation of farm animals fed maize
3.3	Deployment of phosphate resources for nutrient recycling via anaerobic digestion systems
3.4	Hydrothermal conversion of biomass to carbon materials with phosphate recovery
<b>Subject Area 4</b>	<b>Economic evaluation and synthesis, incl. field experiments</b>
4.1	Economic analyses at plot, farm enterprise, regional and sectoral levels
4.2	Synthesis and field experiments
4.3	Impacts on agricultural and food markets at farm, national and global levels

**Front cover:** Dairy farm in Hohhot, Inner Mongolia, China  
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**Project website:**

<https://amaize-p.uni-hohenheim.de/>



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(see map on next page)

**Hotel accommodation Sanya:**

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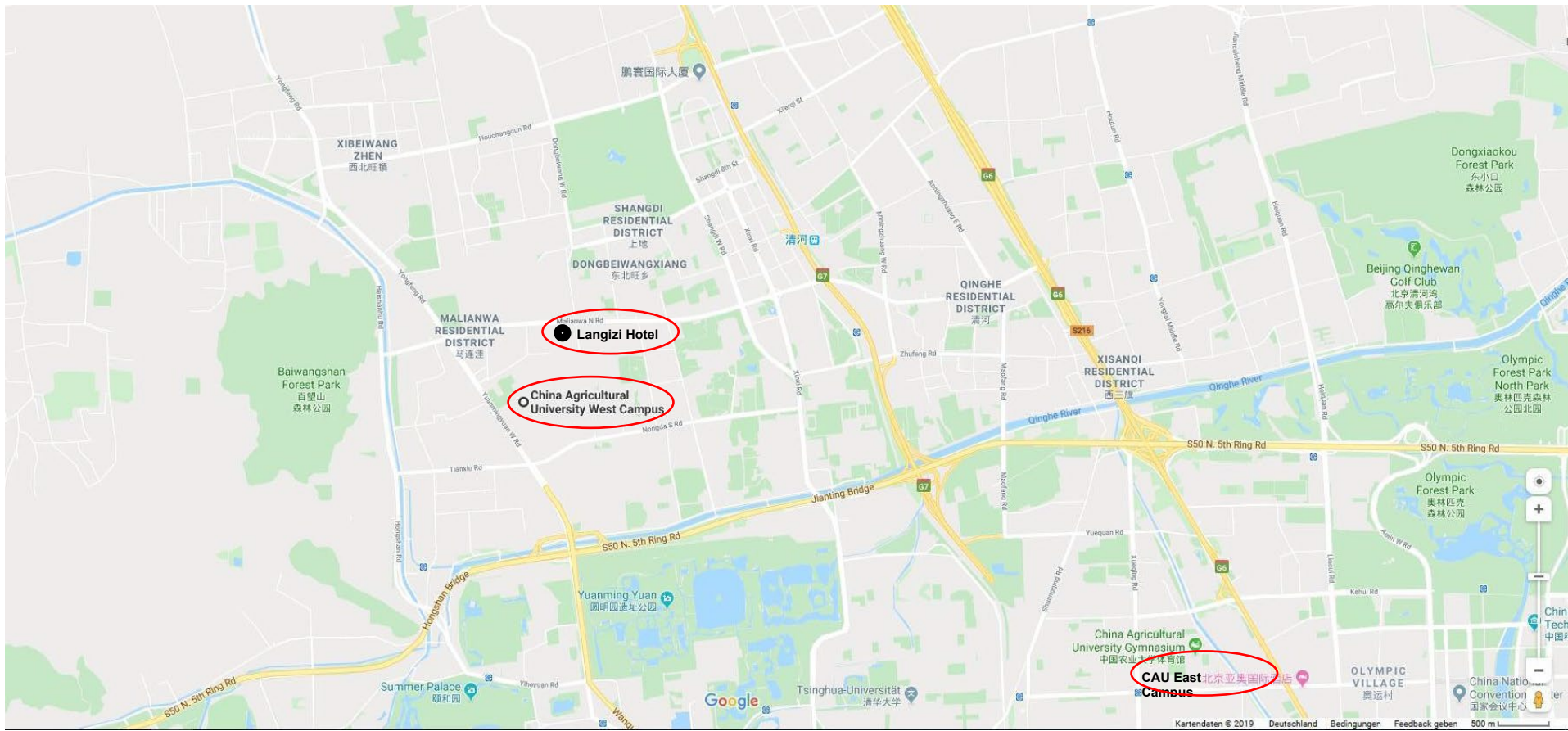
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Map: Location of Langzhi Hotel, CAU West Campus and CAU East Campus in Beijing.