

Symposium of the

Leibniz ScienceCampus Phosphorus Research: Current projects and future perspectives

Monday, November 19th

Time	Title	Speaker
12:00	Registration, Snack & Networking	
12:30	Introduction & P-Campus news	D. Zimmer, U. Bathmann
12:40	P-Campus Publication Award	U. Bathmann
Cluster I: Phosphorus PhD Projects (PGS and others) & Future Perspectives		
12:45	Glyphosate - A phosphorus based herbicide and its complex interactions in soil	P. Gros
12:55	Phosphorus speciation in soil and sediment: clue to understanding the P-dynamics at the land-sea boundary	J. Prüter
13:05	Perspectives of Cluster I - P in the Environment	M. Abraham
Cluster II: Phosphorus PhD Projects (PGS and others) & Future Perspectives		
13:25	Yield response to omitted phosphorus fertilization - Results of a metastudy	M. van Laak
13:35	Processing of alternative P sources for fertilization in agriculture	S. Jahanbakhsh
13:45	Physiological and transcriptional responses due to diets varying in phosphorus and calcium level in weaned piglets.	C. Gerlinger
13:55	Effects of ortho-phosphate on growth performance, welfare and product quality of juvenile African catfish (<i>Clarias gariepinus</i>)	S. Strauch
14:10	Coffee Break	
Cluster II & IV: P-Campus funded projects 2017/2018 & Future Perspectives		
14:30	New Cluster II: Nutrient cycles on production level	J. Tränckner
14:45	P-recovery from RAS sludge and liquid manure - lab-scale results and next steps	J. Tränckner
14:55	Introduction to new Cluster IV: Molecular Biology of Phosphorus'	I. Sokolova
15:10	MitoP: The role of reversible phosphorylation in regulation of mitochondrial bioenergetics	I. Sokolova
Third-party funded phosphorus research projects		
15:20	Scientific resurvey of the wet grassland restoration project: „Osterfeiner Moor“	J. Müller
15:30	Coffee Break	

<i>Time</i>	<i>Title</i>	<i>Speaker</i>
P-Campus General Topics		
15:45	Development P-Campus, Associated Members, Bioeconomy, Land - Shallow Water - Ocean	U. Bathmann, K. Wimmers
16:10	Guided tour to Experimental Animal Facility Cattle or "Tiertechnikum"	All
17:00	P-Campus General Assembly / SAC Internal Meeting	All / SAC
17:30	<i>Networking Snack & Posters Show</i>	<i>All</i>

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Time	Title	Speaker
09:00	Welcome and Introduction	U. Bathmann, D. Zimmer
09:10	Scientific Advisory Council (SAC)	SAC
Cluster III: Phosphorus PhD Projects (PGS and others) & Future Perspectives		
09:25	Plasma-assisted immobilized phosphonium salts as recyclable catalysts for the valorization of CO ₂	Y. Hu
09:35	Crystallization of valuable phosphate-based cofactors from biocatalytic applications (Crysphos)	J. von Langermann
09:45	Cluster III: Phosphorus in synthesis and catalysis - Recent advances and future perspectives	T. Werner
All Clusters: P-Campus funded projects 2017/2018		
10:00	Introduction seed projects	D. Zimmer
10:05	Unraveling molecular signaling pathways involved in phosphorus acquisition of potato (PIPAPo)	M. Kavka
10:20	<i>Coffee Break</i>	
10:40	Electrodialysis of marine water for the measurement of organophosphorus compounds	M. Wirth
10:50	Evaluation of different P-digestion methods for diverse environmental materials (EvaPhon)	R. Schumann
11:00	Plasma-based methods for the digestion of biological substrates for P-analysis (PAS)	V. Brüser
Cluster V: P-Governance		
11:10	Phosphorus Governance - Stocktaking and Perspectives	F. Ekardt
Third-party funded phosphorus research projects		
11:35	Introduction third-party funded phosphorus research projects	D. Zimmer
11:45	Agronomy and crop science - new projects on P research	P. Koal
11:55	Impact of the drilosphere of earthworms on the soil P cycling	C. Baum
12:05	<i>Lunch</i>	

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13:05	P in Chilean soil crusts	K. Baumann
13:15	Functional genes for phosphorus cycling in soils and biological soil crusts	M. Albrecht
13:25	Climate change impacts on Arctic soil and lake microbiomes (CLIMARCTIC)	U. Karsten
13:35	Phosphorus from the source to the sea - Integrated phosphorus and water management for sustainable water protection (PhosWaM)	G. Nausch
13:45	Predicting dissolved reactive phosphorus in tile-drained catchments using modified SWAT model (PhosWaM und NuReDrain)	A. Bauwe
13:55	Towards a molecular level understanding of Phosphorous-cycling in forest ecosystems	A. Ahmed
14:10	<i>Coffee Break</i>	
Third-party funded phosphorus research projects		
14:30	Improving the phosphorus uptake efficiency of starch potatoes to promote a resource friendly raw material production	S. Bachmann-Pfabe
14:40	P-Fowl - Characterizing endocrine and transcriptional determinants of P utilization in laying hens and quails	K. Wimmers
14:50	PEGaSus project: Phosphorus efficiency in <i>Gallus gallus</i> und <i>Sus scrofa</i>	M. Oster
15:00	WETSCAPES – From understanding to sustainable use of rewetted peatlands	G. Jurasinski
15:15	Discussion & Closing Up	U. Bathmann

As at Nov. 9th, 2018