RRR 2025

Greifswald, Germany

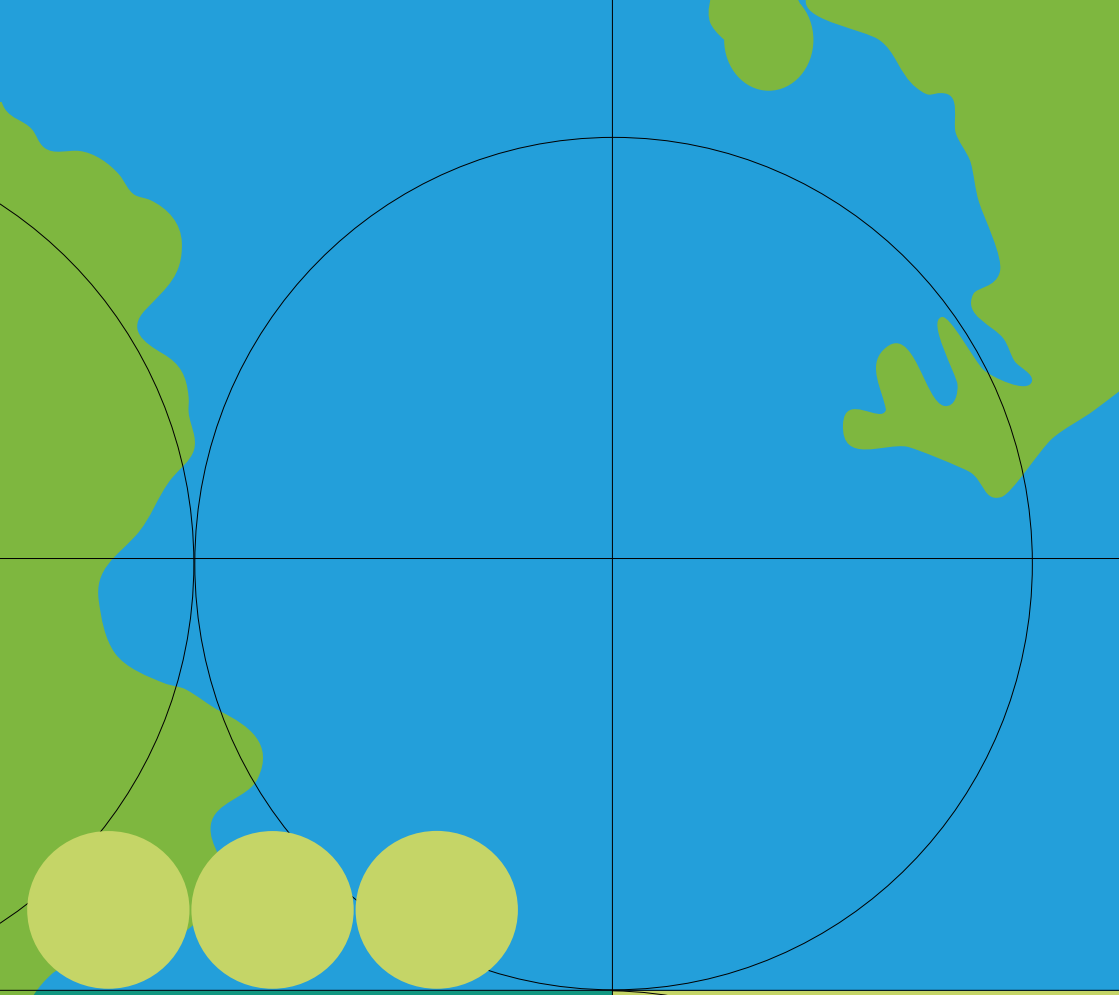
Programme

September 23rd – 26th

4th International Conference on the Utilisation of Wetland Plants

Renewable Resources from Wet and Rewetted Peatlands

GREIFSWALD MIRE CENTRE



Imprint
RRR2025 Organising Team

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Greifswald, September 2025

Dear participant,

a little more than a quarter of a century after ‘paludiculture’ was developed as a concept and created as a new term, and in the 10th year of the Greifswald Mire Centre’s existance, we warmly welcome you to the 4th international conference on “Renewable Resources from Wet and Rewetted Peatlands – RRR2025” in Greifswald.

As research and implementation projects on paludiculture are evolving rapidly, we offer a platform for intensive exchange and to foster dialogue between science and practice. By bringing together diverse stakeholders, the event aims to encourage knowledge exchange, build networks, and develop and strengthen practical, forward-oriented solutions.

You can expect passionate keynote speakers in plenary sessions at the beginning of conference day 1 and 2 and more than 150 scientific oral and poster presentations divided over 17 parallel sessions. Additionally, there are 14 workshops and a concluding fishbowl discussion, where you can (and please do) get active. Following the virtual excursions during RRR2021, this year you will have the opportunity to see and experience peatland and paludiculture sites in northern Germany in real life on six excursions. A colorful and exciting evening programme complements the conference. We begin on Tuesday evening with a Conference Dinner, on Wednesday evening, paludiculture products will be presented in a cosy atmosphere, followed by the exciting “Great Paludi-Show”. The excursion day will end with a cultural evening including a zombie fire documentary and immersive peatland soundscapes.

We wish you an inspiring RRR2025 conference where you can share and widen your knowledge about paludiculture worldwide and actively contribute to shaping a sustainable future for our peatlands.

The RRR2025 Organising Team

PALUDI
CULTURE

RRR 2025

Greifswald Mire Centre

The Greifswald Mire Centre is the interface between science, policy and practice in all peatland related questions – locally and globally. It unites around 150 peatland experts in one place. Partners in the Greifswald Mire Centre are the University of Greifswald, the Michael Succow Foundation and DUENE e.V. The Greifswald Mire Centre offers science-based solutions for social challenges related to peatlands such as climate protection, biodiversity conservation and sustainable use.

www.greifswaldmoor.de

UNIVERSITÄT GREIFSWALD
Wissen lockt. Seit 1456

Succow Stiftung

DUENE

ORGANISING TEAM AND PARTNER

This year, the RRR2025 is being organised by scientists from the Greifswald Mire Centre and the Thünen Institute. The team includes the following people:

Greifswald Mire Centre

Susanne Abel, Dr. Greta Gaudig, Amelie Hünnebeck-Wells, Prof. Dr. Gerald Jurasinski, Nina Körner, Johanna Henkel, Josephine Neubert, Anke Nordt, PD. Dr. Franziska Tanneberger, Dr. Sabine Wichmann, Dr. Wendelin Wichtmann

Thünen Institute

Dr. Merten Minke, Dr. Bärbel Tiemeyer, Jannes Säurich

GREIFSWALD MIRE CENTRE

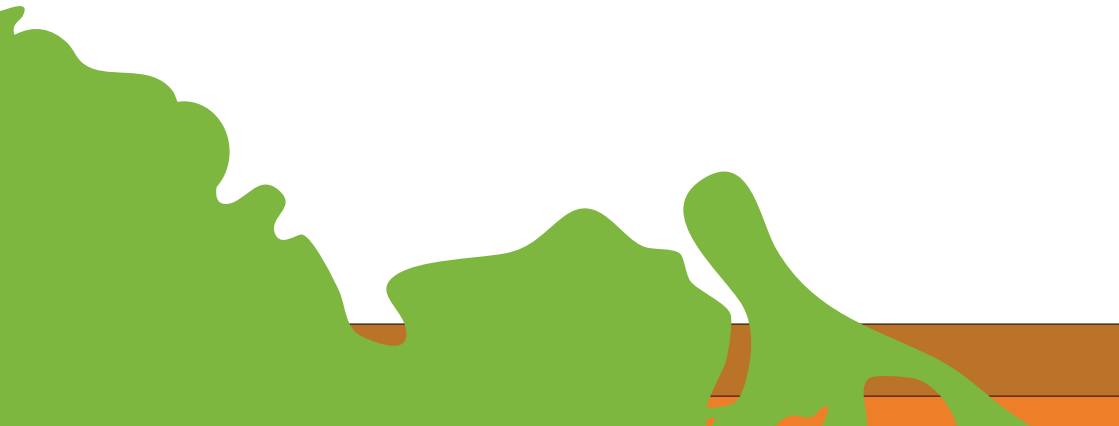
THÜNEN

DAY 1

Tuesday – 23rd September 2025

8:30/ 9:00– 10:30	WORKSHOPS			
	1 Wetland transitions: Opportunities and trade-offs for paludiculture in reaching nature restoration targets • SR 3.21	**2** Exploring future visions of peatlands applying the Three Horizons Approach • SR 3.22	**3** Digitalised peatland vegetation mapping to derive greenhouse gas emissions – the GEST-APP • SR 3.25	**4** Mycelial bioconversion potential of paludicultural feedstocks (*Typha sp.* and *Salix sp.*) • SR 2.26
10:30–11:00	COFFEE BREAK • Foyer			
11:00– 12:30	WORKSHOPS			
	5 Unlocking the Potential of Alternative Fibre Sources: Challenges, Solutions, and the Path Forward • SR 3.21	**6** Exploring Stakeholder Perspectives and Incentive Mechanisms in Peatland Rewetting • SR 3.22	**7** Country specific definitions of organic soils • SR 3.25	**8** Smart Paludiculture Workshop • SR 2.26
12:30–13:30	LUNCH BREAK • Mensa			
13:30– 14:30	WELCOME & INTRODUCTION TO THE CONFERENCE Dr. Franziska Tanneberger (Director Greifswald Mire Centre) Tsjerk Terpstra (European Commision) • Peat moss hall			
14:30– 15:15	KEYNOTE Dr. Christian Fritz “Train.To.Paludiculture” • Peat moss hall			
15:15–16:00	COFFEE BREAK • Foyer			

16:00–17:30	SESSION 1 Inclusive poster pitches, see page 14		
	Ecosystem Services 1: Bärbel Tiemeyer • Peat moss hall	Lessons Learned: Rebekka Artz • Reed room	Governance: Sabine Wichmann • Buffalo arena
	Jeroen Geurts: Quantification of ecosystem services in paludicultures with *Typha* and *Phragmites*	Ilze Ozola: A decade of paludiculture in Latvia: progress, challenges and new directions	Anke Nordt: Obstacles, major fields of actions and financial requirements to promote implementation of paludiculture in Germany
	Moritz Adam: Estimating Carbon Accumulation in Helophyte Paludicultures from Dutch Pilot Sites	Matthias Krebs: Variations in water demand for irrigating a *Sphagnum* paludiculture – results of a 11 years study in NW Germany	Bernhard Osterburg: How supportive is the EU Common Agricultural Policy for peatland rewetting and paludiculture?
	Poster pitches	Poster pitches	Poster pitches
	Meline Brendel: Peat formation potential of *Phragmites australis* on commercially cut reed sites in northeast Germany	Leonard Akwany: African Peatlands Conservation and Utilization (Papyrus and Reeds Economies) with case studies from East Africa and Zambia	Nahleen Lemke: Policy options for incentivizing rewetting and using agricultural peatlands in a climate-neutral EU
	Gert-Jan van Duinen: Paludiculture brings biodiversity to the rewetted peat meadow landscape	Clemens Kleinspehn & Birthe Godt: Value chains for toMOORow: Half-time report on PaludiAlliance	Olivier Hirschler: Conditions and options for replacing peat in horticultural growing media in Germany
	Poster pitches	Poster pitches	
19:00 • StraZe CONFERENCE DINNER			



DAY 2

Wednesday – 24th September 2025

9:00–9:40	KEYNOTE: Dr. Kate Flood “Embedding social-ecological justice for sustainable and equitable peatland transitions” • Peat moss hall		
	SESSION 2 Inclusive poster pitches, see page 16		
9:50–10:45	Peatlands & People 1: Amelie Hünnebeck-Wells • Peat moss hall	Biomass 1: Kristiina Lång • Reed room	Economics & Agronomy: Pia Sommer • Buffalo arena
	Poster pitches	Michael Hafner: Peatland plant fibers for the paper and packaging industry	Poster pitches
	Greta Schmidt: Peat4People: Paludiculture experiences from East Africa	Poster pitches	Regina Neudert: Current knowledge and research gaps in agricultural science and socio-economics of paludiculture: a scoping review
	Nisa Novita: Peatland Restoration in West Kalimantan: A Climate Solution and Pathway to Community Empowerment	Karina Michalska: Valorization of paludibiomass into biogas via regional value chains and cascading-use	Poster pitches
	Bettina Tacke: Well known but insurmountable? Socioeconomic Aspects of the Acceptance of Peatland Rewetting in Brandenburg	Poster pitches	Zhengqiu Ding: Economic trade-offs in peatland rewetting: Assessing opportunity costs and policy levers for paludiculture adoption
	Poster pitches	Poster pitches	Poster pitches
10:45–11:30	COFFEE BREAK & POSTER PRESENTATION • Foyer		
	WORKSHOPS		
11:30–13:00	**9** Paludiculture in the CAP: current experiences and recommendations for post 2027 • SR 3.21	**10** WETBEINGS: transdisciplinary and mutuality based approaches to peatland living • SR 3.22	

SESSION 3

	Governance: Jan Peters • Peat moss hall	Biomass 2: Ralf Pecenka • Reed room	PV: Volker Beckmann • Buffalo arena
11:30–13:00	Agata Klimkowska: A Landscape Approach to Paludiculture Upscaling: Integrating Ecological and Social Dimensions	Josephine Neubert: Biomass quality for thatching of *Phragmites australis* on commercially cut reed sites in northeast Germany	Oona Allonen: Solar power production on rewetted cutaways – known benefits, unknown practical experience
	Andy Dodson: An Analysis of Stakeholder Conflict and its Impact on the Management and Use of Reedbeds within Great Britain	Mirjam Schibler: Testing effects of cattail in peat-free substrates on crop productivity and soil characteristics shows potential for upscaling	Hanna Rae Martens: Vegetation Response to Solar Panels on Rewetted Peatland
	Karin Ullrich: Solutions for minimising conflicting objectives and creating synergies in the rewetting of peatlands	Thomaz da Silva Lopes Vieira: Sustainable Building Materials from Paludiculture: Life Cycle Assessment and BIM-based Evaluation	Florian Heinrich: Assessing the Levelized Cost of Electricity for Peatland-PV in Germany based on Spatial Indicators
	Katharina Laage: Rewetting “quick and easy” – is it possible?	Martin Krus: Environmental protection and simple, cost-effective construction with building materials made of the paludiculture *Typha angustifolia*	Carl Pump: Analysis of Peatland-Photovoltaic: A system transition and photovoltaic project planner perspective
	Wiktor Kotowski: Landscape-ecological approach to avoid conflicts and maximize synergies between paludiculture, biodiversity and conventional agriculture. A few case-studies from Poland	Niklas Fanelsa: Application of Paludi Biomass in Regenerative Building Materials for Multi-Story Housing	
		Oliver Maaß: From rewetted peatlands to houses: Value chain analysis of building materials made of paludiculture	

13:00–14:00 LUNCH BREAK • Mensa

14:00–15:30	WORKSHOP		
	11 Paludiculture under National Restoration Plans and Carbon Removals and Carbon Farming Certification Regulation: Country experiences and opportunities • SR 3.22		
	SESSION 4		
	Peatlands & People 2: Laura Herzog • Peat moss hall	Biomass 3: Anke Nordt • Reed room	Biodiversity: Franziska Tanneberger • Buffalo arena
	Mehri Khosravi: From Drainage to Paludiculture: Stakeholder Perspectives on Paludiculture Adoption in the UK	Annette Prochnow: Concentrations and yields of strategic elements in paludibiomass from fen peatlands	Susanne Arbeiter: Does faunal biodiversity benefit from rewetting and paludiculture in European peatlands? – a meta-analysis
	Susanne Brorson: Baltic Bioregional – research through studio and 1:1 experimentation with renewable resources from rewetted peatlands	Maximilian Wenzel: Biomass from peatlands as filler material or fibre enforcement for (bio-)plastics – Paludi-Produkt	Jana Packmoor: Is a *Sphagnum* farming site attractive for peatland dragonflies?
	Andreas Stauss: Transition processes with private land owners and farmers	Jonas-Rumi Baumann: Utilisation of Paludiculture Biomass for Injection Moulding – Combining Performance, Sustainability, and Market Competitiveness?	Christine Weisenberger: Genetic characterization of *Typha* species in Germany
	Charlotte Schröder: The Regionality of Meaning Structures Concerning Peatland Rewetting in Germany – A Structural Topic Modeling (STM) Approach to Understanding the Discourse on a Large-Scale Climate Protection Measure	Armin Winter: Innovative Valorization of Aquatic Plants from the Danube Region in a Decentralized Biorefinery	Jürgen Müller: Utilisation pattern of a heterogeneous wet grassland site by water buffalo
	Laura Kearney: Aligning Agri-Environmental Policy with Farmer Values: A Social-Landscape Approach to Peatland Restoration in Northwest Ireland	Hildegard Kieninger: From peatlands to pharmacies by understanding the phytochemical variability of Drosera rotundifolia	Sabine Behr: Maintenance of fen peatlands through year-round extensive grazing in the NSG Pfrunger-Burgweiler Ried
	Nerijus Zableckis: PaluWise Paludiculture demonstrations providing multi-actor approaches and recommendations towards large-scale deployment in the EU. Challenges for the development of paludiculture in Lithuania: Baisogala case	Malte Zoerner: Plant selection for paludiculture: Seeking the most productive genotypes with a high content of bioactive secondary metabolites and good suitability for cultivation _The SoMoMed project – Sundew and cloudberry as medicinal plants in paludiculture	Patrick Gutjahr: Mosquito community structure and dynamic in drained and rewetted peatlands: Initial steps towards vector-resilient management

15:30–16:15 COFFEE BREAK & POSTER PRESENTATION • Foyer

16:15–17:30	WORKSHOP		
	12 Promoting Grassroots Uptake of Paludiculture by Farmers through On-farm Trials and Cultural Alignment • SR 3.21		
	SESSION 5		
	Economics: Bernhard Osterburg • Peat moss hall	Ecosystem Services 2: Poul Erik Laerke • Reed room	Monitoring & Methods: Gerald Jurasinski • Buffalo arena
	Christoph Buschmann: Towards a roadmap of rewetting agriculturally used drained peatlands in Germany: Site-specific abatement and opportunity costs for the peatland-rich federal states	John Couwenberg: Vegetation as proxy for GHG emissions from organic soils – 2025 update of the GEST list	Bärbel Tiemeyer: Establishment of a German peatland monitoring programme for climate protection – Open land (MoMoK)
	Julia Casperd: The economics of rewetting patchy lowland peat – farm case studies from the UK	Marco Cosme: Microbiome legacy influences the global warming potential of peatland soil	Azim Baibagyssov: Mapping and Quantifying Biomass Resources in Reed Beds of the Syr Darya Delta, Kazakhstan by Means of Remote Sensing and Random Forest
	Janne Rämö: Water and crop management on peatlands at farm level: the role of carbon incentives	Sannimari Käärmelahti: Temporal changes in biogeochemical drivers and nutrient removal of *Typha latifolia* paludiculture	Gerardo Lopez Saldana: Integrating hydrology, ground motion and vegetation biophysical parameters to assess peatland condition
	Jennifer Merten: Economical and institutional challenges in implementing paludiculture – comparing insights from Flanders (Belgium) and Brandenburg (Germany)	Lara Massa: Balancing productivity and ecology: Insights into nutrient dynamics and management applications at the *Typha latifolia* paludiculture site "Teichweide" polder, Mecklenburg-Vorpommern	Henriette Rossa: Automatic Vegetation Mapping in Peatlands – Compilation of a Ground Truth Dataset for Ecologically Informed Machine Learning
	Konrad Misztal: Capital investments in the paludiculture sector	Dominik Zak: Fast-Mow-Slow – three ways to drop phosphorus release in rewetted peatlands	Julia Casperd: Landscape Scale Nature Recovery on Patchy Rewetted Lowland Peat – a Case Study from the UK

17:30– ca. 21:00 PALUDI EXHIBITION "All you can peat" • Foyer
"The Great Paludi-Show" • Peat moss hall
with street food in the courtyard

DAY 3

Thursday – 25th September 2025

EXCURSIONS		
19:30 CULTURAL EVENING • Lecture hall		
“radio.earth – listening to change” • Buffalo arena	“In Zombie Fire” • Reed room	

DAY 4

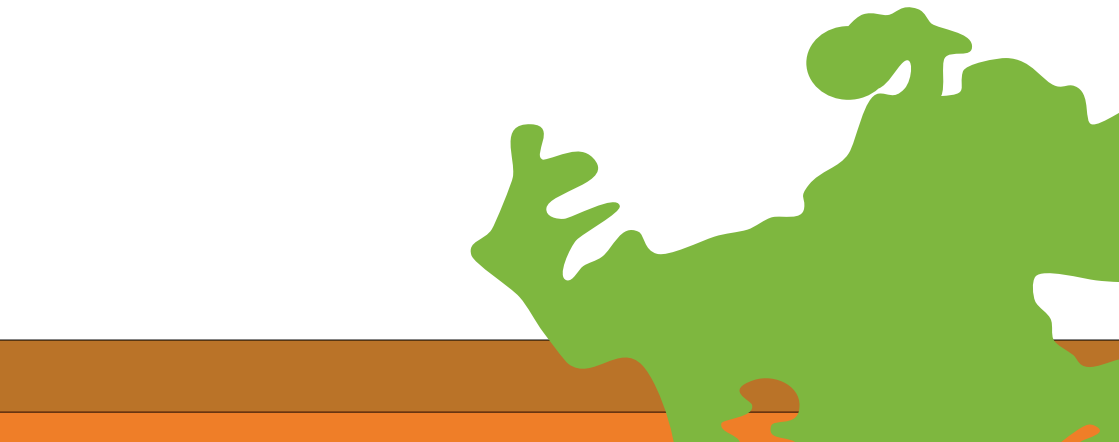
Friday – 26th September 2025

09:00–11:00	WORKSHOPS	
	13 Co-creation processes – a way to successful peatland restoration und paludiculture implementation • SR 3.21	**14** Workshop on Peatland-PV: Integrating Diverse Perspectives for Holistic Research • SR 3.22
	SESSION 6	
	Ecosystem Services 3: Matthias Drösler • Peat moss hall	Agronomy: Jürgen Kreyling • Buffalo arena
	Tim Eickenscheidt: Effects of different fertilization strategies and groundwater management scenarios on greenhouse gas dynamics and mitigation potentials in various paludiculture systems	Frank Pannemann: Establishment of *Carex acutiformis* in Paludiculture
	Renske Vroom: Unravelling GHG emission drivers in *Typha* paludiculture: a mesocosm study	Nora Köhn: Assessing cattail (*Typha spp.*) productivity and biomass quality over four years at a 10-ha paludiculture pilot site
	Philipp-Fernando Köwitsch: Effects of topsoil removal on greenhouse gas exchange and carbon allocation of fen paludicultures	Waas Thissen: Cattail species and water management to optimize cattail yields
	Caroline Daun: How to minimise greenhouse gas emissions in *Sphagnum* re-vegetation areas – the role of topsoil removal	Maria Glaubitz: Scale-Up of *Sphagnum* founder material production in a photobioreactor
	Poul Erik Lærke: Biomass yield and greenhouse gas emissions of reed canary grass in a rewetting fen peatland	Jack Clough: Lessons learned from *Sphagnum* Farming with the MIFA approach
	Boodoo Kyle: Drivers- and spatio-temporal variability of greenhouse gas emissions from temperate fen peatlands under paludiculture	Greta Gaudig: Don’t wait too long! – when to harvest a *Sphagnum* paludiculture
	Gerald Jurasinski: Cultivation of *Typha* as a new permanent agricultural crop – initial results regarding the carbon and climate balance	

11:00–11:30 COFFEE BREAK • Foyer

11:30–12:40	Paludiculture – a win-win-win solution, an exciting field of research, a naive utopia, a threat or a force? Which images and strategies promote or hinder the success of paludiculture, and what does this mean for our communication? Dynamic discussion in fishbowl format. Active participation welcome. Facilitation: Ulrike Tröger and Augustin Berghöfer • Peat moss hall
12:30–13:00	Closing with Dr. Franziska Tanneberger • Peat moss hall

13:00–14:00 LUNCH • Mensa



DAY 1

Tuesday – 23rd September 2025

For the exact schedule, please check the Converia app.

	POSTER PITCHES AT THE BEGINNING, IN BETWEEN AND END OF THE SESSIONS		
	Ecosystem Services 1	Lessons Learned 1 + Biodiversity	Governance
Session 1 16:00–17:30	Philipp-Fernando Köwitsch: How much water is required for *Typha* paludiculture?	Roos Galjaard: Lessons learned from BUFFER+: Buffer carbon + water in peatlands: landscape based solutions for climate adaption	Alba A. Alonso: Policy opportunities for peatland restoration in the Common Agricultural Policy and the Carbon Removal and Carbon Farming Regulation
	Matthias Lampe: The water balance of a 10 ha cattail cultivation test site in NE Germany.	Janice Neumann: PALUS DEMOS: Paludiculture large-scale demonstrations – Advancing solutions for degraded peatlands	Päivi Merilä: PaluWise develops advanced solutions for productive use of rewetted degraded peatland ecosystems
	Sebastian F. A. Jordan: Klimafarm: Paludiculture in Northern Germany – Planning, rewetting and collecting first data	Adam. H.W. Koks: Can peat moss (*Sphagnum*) be cultivated on formerly drained Dutch agricultural peatlands – lessons learned from pilot projects	Lars Kretschmer: Germany-wide Potential for Conversion to Paludiculture on Agricultural Land to Reduce Greenhouse Gas Emissions by integrating new Yield Models
	Antonia Fels: Hydrological studies on wet meadow paludicultures in the LivingLab Teufelsmoor	Merten Minke: Networking and overarching coordination of large-scale projects for joint recommendations for sustainable paludicultures	Andrea Lange, An IACS data-based analysis of agricultural land-use on organic soils in Germany
	Sebastian Heller: Phosphor pools in peat and other organic soils: baseline data and sampling protocols for paludiculture	Annette Prochnow, Venja Röber-Terstegen, WetNetBB: Network of model and demonstration projects in Brandenburg's peatland regions	Sarah-Maria Schäffer: Spatial Planning and Peatland Protection: Identifying Opportunities for Rewetting Peatlands
	Gabrielle Rabelo Quadra: Potential of *Sphagnum* paludiculture for water purification and element sequestration: insights from a field-scale topsoil removal experiment	Sören Tech: The project LivingLab Teufelsmoor	Hubert Piórkowski: Paludiculture – a chance for disappearing peatland ecosystems in Poland?

	Hannah M. Silvennoinen: Boreal *Sphagnum* farming for increased biodiversity and decreased greenhouse gas emissions	Roman Adam: -MOOReturn- Combining peatland climate protection and added valuevia peatland revitalization and paludiculture	
	Elena Aitova: The effect of restoration techniques on the carbon savings potential of a raised bog	Jasmin Hanser, Carola Blessing: Testing wild plant mixtures for rewetted peatland	
	Elena Aitova: A review of greenhouse gas emissions and removals from Irish peatlands	Leon Hanke: Genomic analyses & DNA-Barcoding for efficient *Sphagnum* moss differentiation and characterization	
Session 1 16:00–17:30	Marie-Luise Dexl: Methane and nitrous oxide measurements on a water buffalo meadow with a dynamic chamber system.	Wiebke Vogel: Paludiculture with *Typha*: climate protection, economy AND biodiversity?	
	Adam Bogacz: Soil Condition and Paludiculture Potential on a Post-Fire Fen in South-Western Poland	Oswin van der Scheer: Nature based services provided by paludiculture in a peatland wetscape	
	Nisa Novita: Enhancing Climate and Community Resilience Through Tropical Peatland Restoration in West Kalimantan, Indonesia	Susanne Arbeiter: Restoration of the Pomeranian population of the Aquatic Warbler – an endangered fen mire specialist	
	Cordula Gutekunst: Effect of solar panels on greenhouse gas emissions in a rewetted peatland		

DAY 2

Wednesday – 24th September 2025

For the exact schedule, please check the Converia app.

	POSTER PITCHES AT THE BEGINNING, IN BETWEEN AND END OF THE SESSIONS		
	Peatlands & People 1	Biomass utilisation & PV	Economics & Agronomy
Session 2 09:50–10:45	Suza Husse: Venice Agreement for Peatlands	Kristiina Lång: FIBSUN project: Novel fibre value chains and ecosystem services from sustainable feedstocks	Michael Rühs: Analysis of costs and carbon footprint of Paludiculture-biomass harvesting techniques by means of Monte Carlo Simulations
	Carola Kiene: Identifying factors for social acceptance of photovoltaic systems in rewetted peatlands	Marc Küperkoch: Cotton grass: An underestimated fibre plant as an opportunity for the establishment of paludiculture	Malte Schneider & Jenny Hammerich: Scaling Peatland Rewetting through Carbon Markets: A Private Sector Perspective from Central and Eastern Europe
	Karoline Hemminger: Transforming Peatland Management: Stakeholder Roles and Governance in Brandenburg	Jeferson Vicente: Valorisation of Paludiculture Biomass through Furfural Synthesis in a Two-Step Process	Wendelin Wichtmann: Certification of biomass from Paludiculture
	Claudia Oehmke: MoorAgentur MV – networking, advice and support of peatland rewetting at a regional level	Thomas Süß, Andreas Stauss, Elena Zydek, Marie Bajohr: Utilisation of Peatland Biomass Through Pyrolysis – Results and Practical Experiences from the Two German BMUV Projects Klimafarm (SH) and MoorWERT (BY)	Sabine Wichmann: Update on the market of Common Reed for thatching (1990–2023)
	Matthias Schuppler: “Unser Land kann Moor” – Building an Online Networking Platform and Marketplace for Paludiculture Raw Materials	Ekaterina Gualoto-Kirochka, Michael Rühs: Life Cycle Analysis of Paludiculture-biomass use in paper production	Marcus Schlingmann: Dairy farming on wet peatland soils – Options, Grassland Management and Valuation
	Hauke Schmülling: The first student congress on peatland science: “Moore-Motion” in Greifswald	Basri Oktay Koc: Development of processes for the extraction and processing of fiber raw materials from paludi biomass for use in pulp & paper	Emily Pope: Supporting the value chain development for paludiculture production in the UK: *Sphagnum* moss as growing media

		Lyanne Ausema: Paludi & Bau: Turning Wetland material into Sustainable Building Materials	Bettina Tacke: A functioning value chain? Results of the BLuMo project on keeping water buffalo on rewetted peatland areas in Brandenburg
		Steffen Sydow: Development of innovative building materials based on paludiculture bulrush and establishment of a demonstration production facility	Thiade Thorben Langenhan, Jan Gutjahr: Paludi Value Chains as Bioregional Clusters for Regenerative
		Ulrike Wegener: Development of a RAL quality assurance for *Sphagnum* biomass as a growing media constituent	Telse Vogel: Analysing methods for recording machine and work processes for paludiculture procedures – a field test during *Typha* harvest
		Andrea Krüger: MoorPower – Sustainable and innovative photovoltaic solutions for rewetted peatlands	Annelie Säurich: Shearing vanes, penetrometers, and seven operators: Digging into the user effect on trafficability measurements
		Monika Hohlbein: Moor-PV – Climate and peatland protection through a combination of photovoltaics and peatland rewetting	Teresa Koller: Grassland management on rewetted fens: results of field experiments in Bavaria
Session 2 09:50–10:45		Wiltrut Koppensteiner: A systematic review regarding the effects of ground-mounted solar farms on faunistic biodiversity in Europe	Christina Hartung: Factors Influencing Flower Formation in *Carex acutiformis*
		Bas Spanjers: PaludiScout.de – An information platform for harvesting machinery in paludiculture	Constantin Möbius: What influences the germination of *Typha latifolia* seeds? A literature review, supplemented by experimental results and a practical approach.
			Jeroen Pijlman: Sowing cattail: pay attention to soil properties and water levels
			Lars Kretschmer: Influence of nutrient supply on biomass yield and biomass quality of paludiculture plants

Greifswald – a Hanseatic and University Town

The city of Greifswald, situated in northeastern Germany on the Baltic Sea coast, is a founding member of the Hanseatic League of Towns. Alongside the Hanseatic League, the founding of the university in 1456 was decisive for the city's development. Today, Greifswald is a nationally and internationally renowned location for science, technology and research. It is situated amidst extensive forests, peatlands, and lakes, including seven national parks and biosphere reserves and many large restoration projects. The market square with its medieval churches offers visitors one of the most beautiful northern German market place ensembles.

Conference Venue

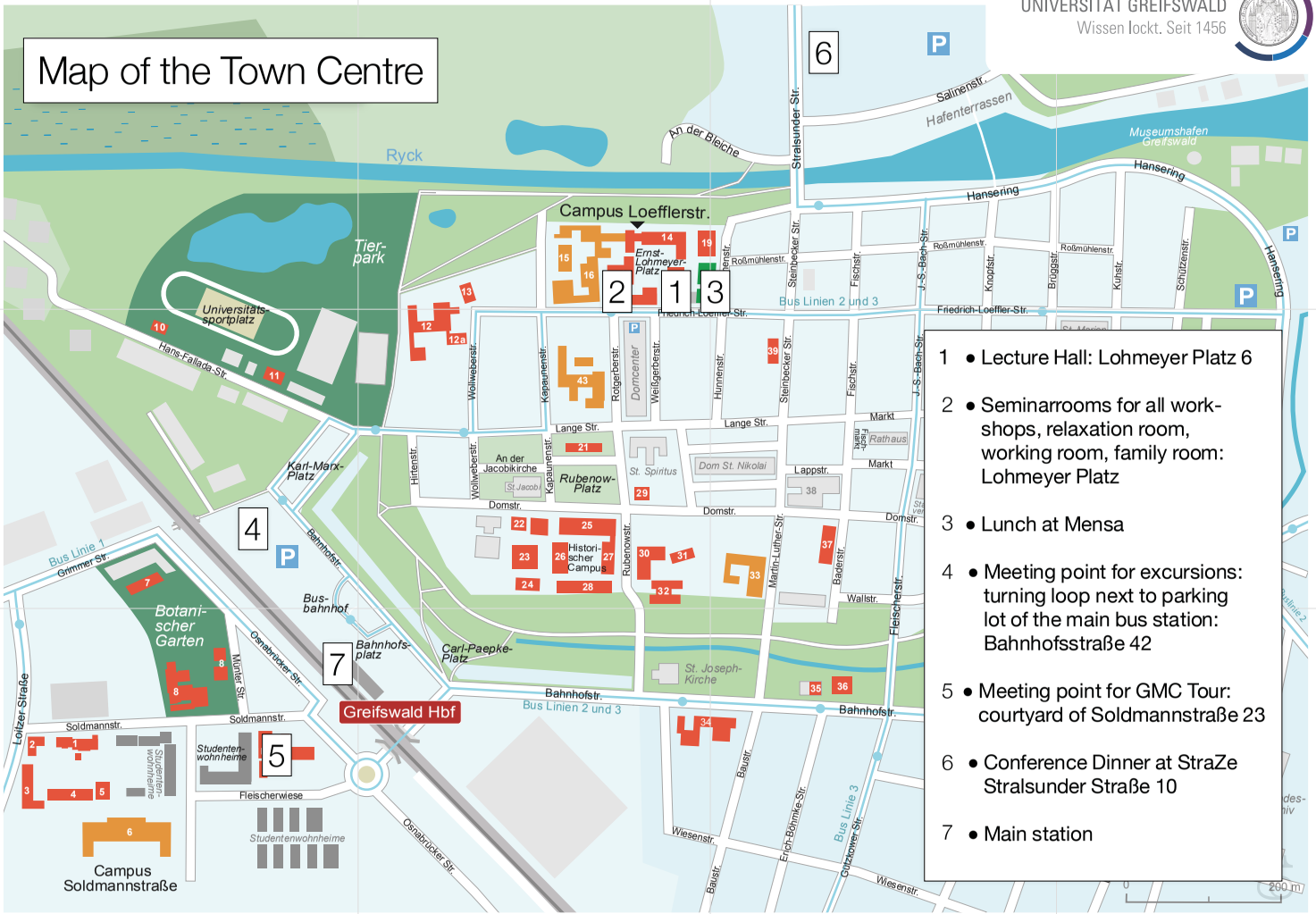
- **Location: Campus Loefflerstraße**

The sessions will take place in the main conference building (lecture hall building) with the "Peat moss hall" also for plenary sessions, the "Reed room" and the "Buffalo arena".

The Workshops will take place in the Seminar rooms 2.26, 3.21, 3.22 and 3.25. These are located on the 2nd and 3rd floors of the building opposite the lecture hall building – behind the fruit trees in the Faculty of Law and Economics building. Here you will also find a relaxation room (SR 3.20, 3rd floor), two work rooms (SR 2.26 and SR 2.28, 2nd floor) and a family room for free use. The rooms are additionally signposted in the building.

UNIVERSITÄT GREIFSWALD
Wissen lockt. Seit 1456

Map of the Town Centre



1 • Lecture Hall: Lohmeyer Platz 6

2 • Seminarrooms for all workshops, relaxation room, working room, family room: Lohmeyer Platz

3 • Lunch at Mensa

4 • Meeting point for excursions: turning loop next to parking lot of the main bus station: Bahnhofsstraße 42

5 • Meeting point for GMC Tour: courtyard of Soldmannstraße 23

6 • Conference Dinner at StraZe Stralsunder Straße 10

7 • Main station

Instructions for oral presentations

The timing of your presentation is of utmost importance. With so many speakers and other sessions running concurrently, we need to adhere strictly to the time schedule. Please, practice your talk and make sure that it will not overrun your time slot. The length of your talk is limited to 12 minutes with an additional 2 minutes reserved for questions. All speakers are requested to be in the room of their session at least 10 minutes before the session starts, to bring your presentation to the technical staff and to contact the session's chairperson. Please note that it will not be possible to connect your own laptop to the projector. We need your presentation on a memory stick readable by a Windows PC (pdf, ppt or pptx). Please be responsive to the indications on the timing near the end of your talk. Your chairperson will ring a bell after 12 minutes, when you have used all of your time and need to end your talk immediately.

Instructions for poster presentations

Posters must be in A0 Format – upright. Posters can be mounted on boards for display in the foyer and on the 1st floor. Boards are marked with title and your name. Drawing pins and adhesive tape will be provided. Please submit your poster for the presentation in the session as a PDF/PPT file when registering. Please mount your poster as soon as possible after your registration at the desk. There will be two poster session on Wednesday, 24.09.2025 at 10:45–11:30 am and 3:30–4:15 pm. Please stand next to your poster during the poster session to answer questions.

Thank you.

HISTORY OF THE RRR CONFERENCE

The upcoming conference is the fourth in a series of international conferences in Greifswald dealing with paludiculture. The first international conference on the use of wetland plants, RRR2013 (Reed as a Renewable Resource), took place in February 2013 and was attended by around 120 participants from 25 countries. The focus was on practical issues of paludiculture, results from current applied research and experiences from paludiculture projects worldwide. Important harvesting technology issues were discussed at the harvesting machinery exhibition (fair) on the Greifswald market square. The results of the first conference were summarised in a memorandum.

The second international conference (RRR2017 – Renewable resources from wet and rewetted peatlands) with about 200 international participants followed in September 2017 to continue the dialogue on paludiculture and share the latest scientific developments. The conference week was introduced by a national event on climate protection and peatland utilisation, followed by an excursion day, continued by the two day international conference with presentations in 7 sessions and ended with a workshop on *Sphagnum* farming. At the end of the conference, a final declaration was agreed in plenary. Other highlights of the conference were again an exhibition of machinery and paludiculture products as well as the art exhibition "Rumooren".

The third international conference, which took place in March 2021, built on the themes of the previous RRR conferences. The focus was on the potential uses of paludi-biomass and the climate impact of peatlands. A particular challenge for the organising committee was that the Covid pandemic did not allow a face-to-face meeting. It therefore took place online only. Nevertheless more than 300 people participated. Preparing the virtual excursions was an unusual task. In 8 inspiring virtual excursions (films of ca. 7 min each) demonstration sites for paludiculture and peatland restoration as well as paludiculture products in Germany and UK were presented. Other highlights were a literature evening with Hans Joosten, a photography workshop with Tina Claffey and the slow session: Paludiculture & Art.

Find more information, book of abstracts and pictures of the last RRR conferences at www.moorwissen.de/events


Peatlands must be wet:
for the climate, for the land,
for the people, for ever...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loglogic.co.uk
loglogic
SOFTRAK

Christian Fritz “Train. To.Paludiculture”

Tuesday – 23rd September 2025, 2.30 pm

Christian Fritz is a trained peatland scientist with extensive experience in paludiculture and wetland restoration, which he has focused on since 2005. His research spans carbon, nutrient, and water cycles in European peatlands, complemented by research stays in New Zealand, South America, and Siberia. Since 2023, Christian has chaired the Eco-Hydrology and Peatland Science Group at Radboud University Nijmegen, Netherlands. The group collaborates across disciplines to advance socially inclusive research and quantify processes essential for climate neutrality and ecosystem services in rewetted peatlands and paludiculture systems.

In his keynote speech, Christian Fritz will guide you on a journey across European peatlands managed for the production and use of paludiculture biomass. He will highlight success stories where paludiculture has improved ecosystem services and contributed to climate mitigation, supported by quantitative insights. Christian Fritz will also discuss how best-practice management can overcome barriers and build broader acceptance. As you navigate the challenges and innovations of piloting paludiculture, this journey will explore its limitations, opportunities, and the necessity to scale up paludiculture to achieve a climate-neutral Europe.

Kate Flood “Embedding social-ecological justice for sustainable and equitable peatland transitions”

Wednesday – 24th September 2025, 9.00 am

Kate Flood is a peatland researcher working at the intersection of social science, ecology, and arts and humanities disciplines to explore the relationships between people and peatlands. Her research interests include the cultural and social dimensions of peatland conservation and the role of communities (geographical and communities of interest) in contributing to the restoration and resilience of peatlands. Recent research encompasses diverse peatland-related themes, including work on Peat Hub Ireland, WaterLANDS, and the Tóchar Community Stories project.

This presentation explores the theory and practice of Just Transition in Ireland, focusing on recent research, restoration, and lived experience of communities in the Irish midlands. These communities are transitioning from extractive industries that once provided employment and socio-economic benefits to regenerative models that foreground restoration, conservation, recreation and socio-cultural transition. Such transitions are crucial for driving the societal transformation needed to address the ongoing climate and biodiversity crises and to achieve sustainable development goals. However, significant knowledge gaps, barriers, and challenges remain, particularly regarding the socio-economic, political, and equity dimensions of implementing peatland conservation and restoration initiatives. Drawing on insights from research, practice, and grassroots efforts, this presentation highlights the dual ecological and social nature of peatland restoration and the need for integrated, interdisciplinary research and practice to deliver interconnected ecological, economic and social benefits.

SPECIAL EVENTS DURING THE CONFERENCE

24th September 5.30–9 pm • Lecture hall building

Paludiculture Exhibition & The Great Paludi-Show

Paludiculture exhibition “All you can peat”

We can build houses with it, grow vegetables on it, eat food from it, heat with it and much more. Paludiculture biomass can be used for a large variety of applications. We present them at a creative product fair.

Get ready for the “Great Paludi-Show”!

A fun and interactive evening where you don’t just watch – you think, laugh, and learn. Discover how paludiculture is already becoming reality with surprising products and fresh ideas for you, for industry, and for the planet.

Catering will be provided outside. Food is included in the conference ticket, drinks are not covered and must be paid.

25th September 7.30–9 pm • Lecture hall building | Reed room

In Zombie Fire

● Screening and talk

with filmmaker and researcher Jeanna Kolesova and Suza Husse, coordinator of the transdisciplinary arts and research platform Sensing Peat

A haunting journey through Europe's forgotten peatlands, *In Zombie Fire* reclaims suppressed histories of environmental degradation, labour, and imperial domination, imagining non-extractivist futures through experimental documentary storytelling.

Jeanna Kolesova's experimental documentary film *In Zombie Fire* investigates how imperial narratives endure in energy extraction, centering on the overlooked history and ecological scars of peatlands across Russia, the Baltic states, Finland, and Germany. Once celebrated as engines of Soviet industrialisation, these landscapes bear the hidden costs of labor exploitation, environmental devastation, and geopolitical power struggles that persist today.

Blending archival research, environmental sensing, oral histories, and speculative storytelling, the film approaches peatlands as living witnesses to ongoing violence. Through the narration of the imaginative creature *Swamp Spirit*, it explores how the conquest of wetlands and energy imperialism has reshaped ecologies, bodies, and memories.

Working collaboratively with affected communities, activists, scientists, and historians, *In Zombie Fire* co-creates counter-narratives that challenge dominant histories and envision regenerative futures beyond extractivism.

Video stills from *In Zombie Fire* (Jeanna Kolesova)

Jeanna Kolesova and Suza Husse will screen excerpts and research materials from the documentary and be in conversation about peatlands as ideological figures and narratives as well as unruly muddy presences that shape past, future and present of peatland ecologies and cultures.

Jeanna Kolesova is artistic researcher in residence at the transdisciplinary arts and research platform Sensing Peat at the Michael Succow Foundation, partner in the Greifswald Mire Centre.

www.sensingpeat.net/

25th September 7:30–9 pm • Lecture hall building | Buffalo arena

radio.earth – listening to change

radio.earth is a participatory art and radio project centered on the ecological crisis and its perception. The project emphasises the acoustic, using listening as its core practice. By listening to areas with diverse land-use intensities - ranging from natural spaces to agrarian, urban, and industrial zones - the project aims to expand knowledge and sensitivity about changing natural conditions. radio.earth utilises live acoustic microphones to transmit the audible environment with pristine quality to the internet via cell networks. Listeners can comprehensively experience the soundscape of various places, including their natural and environmental sounds throughout changing seasons. While on air, live broadcasts are announced, exchanged and discussed within an international chat group of artists, researchers and individuals.

https://radio.earth

KoosMic:

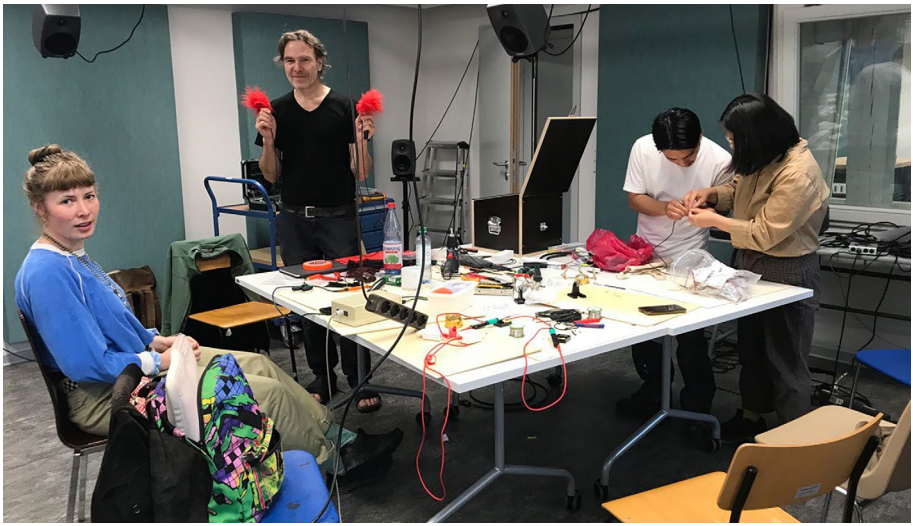
- Live: radio.aporee.org:8443/koosmic

In autumn and winter 2024/25, the KoosMic permanent listening station was established on the island of Koos near Greifswald, in a coastal peatland area managed by the Michael Succow Foundation and scientifically monitored by the Greifswald Mire Centre. The station was initiated by Udo Noll and set up together with students from the Department of Acoustic Ecology, Bauhaus University Weimar under the professorship of Kerstin Ergenzinger.

During the conference, we will listen live to the island's soundscape and selected recordings from recent months, and elaborate on concepts and practises around Acoustic Ecology and the radio.earth project.

Udo Noll is a media artist and graduated as a qualified engineer for photography and media technology at the Cologne University of Applied Sciences. He lives and works in Berlin and Cologne and is the founder and developer of radio aporee, a platform for projects and practice in the areas of field recording, sound art and experimental radio.

https://aporee.org/maps
https://radio.earth/



Photos:: Udo Noll

Kerstin Ergenzinger is a sonic and visual artist and Junior Professor of Acoustic Ecologies and Sound Studies at Bauhaus University Weimar. She works across the fields of sound, sculpture, kinetics, light and drawing and explores the diversity of sensory ecologies and the possibilities of tuning into the differences of the world.

www.nodegree.de
www.sonochoreographic.net
Acoustic Ecologies and Sound Studies

26th September

10 ha *Typha* paludiculture in June 2024 (Photo: T.Dahms)

Excursion 1

Peatland research on *Typha* paludiculture, fen meadows near Neukalen, and a local stakeholder dialogue in a peatland restaurant

- Start: 8 am | End: ca. 5:30 pm
- Highlights: Managed *Typha* paludiculture on 10 ha site with up to 5 m of peat layer, surrounded by grassland dominated by reed canary grass, partly grazed by suckler cows and mown for winter fodder. The fen meadows "Neukalener Seewiesen" (ca. 400 ha) have been drained for agricultural use, nowadays a re-wetted peatland with sedge-meadows dominating. The "Moorbauer" is a riverside excursion restaurant situated in the middle of the peatland and accessible only by swan pedal boat, used to engage in conversations with regional and local stakeholders: moorbauer.com

Water Buffalos (Photo: W. Wichtmann)

Excursion 2

Peatland research on mown and grazed rewetted peatland on the Darß peninsula (Baltic Sea), river valleys of Recknitz and Trebel

- Start: 8 am | End: ca. 6:30 pm
- Highlights: grazing sites with water buffalos on the Darß peninsula. Influence of buffalo grazing on coastal peatlands. First harbingers of migrating cranes. Management of near natural sites for conservation with site-adapted, biodiversity promoting mowing in the lower Recknitz river valley. Study sites of research projects on matter dynamics in rewetted peatlands in the Trebel river valley (WETSCAPES). The sites were rewetted >20 years ago in an EU LIFE project with a generally positive development regarding vegetation development as well as ecosystem functioning. We will also discuss results that showed that paludiculture use might be beneficial for the GHG balance of rewetted peatlands.

Polder Bargischow Süd
(Photo: T. Dahms 2022)

Excursion 3

Peatland research and nature conservation near Anklam (near Island of Usedom), establishing a new reed stand, rewetting for breeding birds

- Start: 8:30 am | End: ca. 5 pm
- Highlights: Lower Peene river valley near Anklam with large rewetted sites; long-term project "peatland pilot" with 480 ha former grassland currently in rewetting process; establishment of new reed stand on 40 ha, broad monitoring activities, such as for mosquitos, biodiversity and GHG emissions; project sites of LIFE "LIMICODRA" with high water levels for the protection of meadow birds.

Coastal flood peatland
(Photo: AESA aerial)

Excursion 4

Karrendorfer Wiesen – restoration of a coastal flood peatland near Greifswald

- Start: 8 am | End: ca. 1 pm
- Highlights: Created by grazing and seasonal flooding – a coastal flood peatland with anthropozoogenic salt meadows; rare variation of the fen type in their natural form, where natural flooding dynamics still occur, exists in only a few locations along the Bodden coast in NE Germany.

Please come at start time to the meeting point: Bahnhofsstraße 42 (see No. 4 in the map on page 19). Please bring rubber boots and weatherproof clothing. Food and drink will be provided.

Aerial view of the 20 ha *Sphagnum* paludiculture site in the peatland Hankhauser Moor near Oldenburg/ Lower Saxony (Photo: S. Busse)

Excursion 5

Cultivation methods and diverse research on *Sphagnum* paludiculture on rewetted bogs in Lower Saxony / NW Germany

- Start: 6 am, End: ca. 11 pm
- Highlights: Two *Sphagnum* paludiculture sites on former bog grassland (~20 and 10 ha) with subareas at different stages of development (installed in 2024/25, 2020 or 2016) and experiments on best practice, top soil removal depth, water management (different ditch distances, subsurface irrigation), regeneration after harvest, a small scale field trial on the selection of productive provenances of 12 potential *Sphagnum* paludiculture species and field test of axenic in vitro-cultivated *Sphagnum* clones; sundew cultivation. Investigations on GHG, water quality and demand, biodiversity etc.

Photo: M. Hohlbein

Excursion 6

Photovoltaic power plant on a rewetted peatland in Lottorf/ Schleswig-Holstein

- Start: 6 am | End: 8.30 pm
- Highlights: ca. 30 ha pholtovoltaics with an installed capacity of 17 MWp on a rewetted peatland previously used as grassland, continued agricultural use by regularly mowing, research on the impacts of PV systems on rewetted peatlands, focusing on biodiversity, greenhouse gas emissions, and economic viability.

Excursion 7

Tour around the Greifswald Mire Centre with the Director Dr. Franziska Tanneberger

- Start: 3 pm | End: ca. 5 pm
- Meeting point: see No. 5 in the map on page 19
- The tour explains how the GMC came into being and what the main subjects are.

The RRR2025 conference is supported by the DFG and several paludiculture projects PaludiZentrale funded by BMLEH/FNR, MOOSland funded by BMLEH/FNR, PaludiProgress funded by BMLEH/FNR, PaludiMV funded by BMUKN/ZUG

DFG Deutsche Forschungsgemeinschaft
German Research Foundation

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aufgrund eines Beschlusses des Deutschen Bundestages

FNR
Fachagentur Nachwachsende Rohstoffe e.V.

ZUG Zukunft Umwelt Gesellschaft