#### **About ABBY-Net**

ABBY-Net is an interdisciplinary network of researchers from universities in the Canadian province of Alberta and the German province of Bavaria, collaborating on topics related to the sustainable development of resources under changing environmental conditions. ABBY-Net scientists work in various fields related to environment, energy, socio-economy, and computing science. We strive to create interdisciplinary approaches that further our understanding of energy systems and ecosystem functioning: Clean energy production, transportation, and storage

- Impact of energy infrastructure on ecosystem processes and functioning
- Effects of changing environmental conditions on energy systems
- Computing Science and AI applications for energy-environment-economy interactions

ABBY Net Summer Schools have been alternating between Alberta and Bavaria since 2012, when the first summer school was held in Kananaskis, Alberta. 2024 will be the ninth edition of our program, where we will take advantage of the excellent facilities of the TUM Research Station Friedrich N. Schwarz in Berchtesgaden, Bavaria, located in the Bavarian Alps, 160 km from Munich.

## **Course Description**

The 2024 ABBY-Net Summer School trains young scientists in interdisciplinary approaches to energy and ecosystem research. The course will focus on resource-management issues in a comparative context of German and Canadian settings, and the impact of conventional and renewable energy systems on natural ecosystem functioning. Students will attend seminars on key extra-disciplinary topics (energy systems, environmental systems, energy economics, and data analysis), and participate in field excursions designed to educate participants on local resourcemanagement issues. Participants will be challenged to develop inter-disciplinary research proposals designed to solve practical problems related to energy development in Bavaria and Alberta.

#### http://www.abby-net.org



## **Participation and Registration**

A participation fee of €200 is required for the Summer School. This fee covers accommodation, meals, transfers to and from Berchtesgaden, and field tours. Attendance is limited and subject to selection by the ABBY-Net Program Committee.

Please apply online at <u>http://www.abby-net.org</u>. Canadian deadline for applications is March 31<sup>st</sup>, 2024. German deadline for applications is April 30<sup>th</sup>, 2024.

## Venue and Directions



The Summer School will be hosted at the TUM Research Station Friedrich N. Schwarz in Berchtesgaden, close to the Austrian border. All participants will also board and lodge at the Re-

search Center, an energy neutral research facility, which has only been opened in 2019. Transport to the facility will be provided.



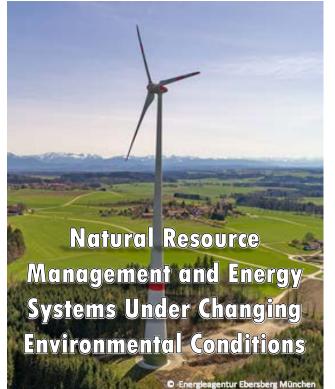
# **Program Committee**

Thomas Baumann (TUM), Inga Beck (LMU), Joule Bergerson (UCalgary), Jürgen Karl (FAU), Scott Ketcheson (UAthabasca), Julia Linke (UCalgary), Ralf Ludwig (LMU), Bernhard Mayer (UCalgary), , Annette Menzel (TUM), Pierre Mertiny (UAlberta), Petr Musilek (UAlberta), Matthias Schubert (LMU)



# **ABBY-Net** Albertan - Bayarian Research Network

Announcement for the 9<sup>th</sup> ABBY-Net Summer School

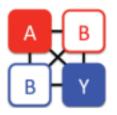


August 10-17, 2024

**TUM Research Center** 

Berchtesgaden, Germany

Friedrich N. Schwarz



Time/Date	in July (tbd)	Saturday, 10 August	Sunday, 11 August	Monday, 12 August	Tuesday, 13 August	Wednesday, 14 Aug	Thursday, 15 August	Friday, 16 August	Saturday, 17 August
Where?	Online	Munich @ LMU	Excursion	Berchtesgaden	Berchtesgaden	Excursion	Berchtesgaden	Berchtesgaden	Berchtesgaden
What?		Course program	Transfer to Berchtesgaden	Course program	Course program	Local area	Course program	Course program	Transfer to Munich
07:00 - 08:00				Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
08:00 - 08:30				M3 - Energy Systems	M5 - Computing Science and AI	M2 - Field Tour - Landscape and Forest Ecology			M11 - Group Presentations
08:30 - 09:00									
09:00 - 09:30		Welcome	M2 - Field Tour - Geothermal Energy						
09:30 - 10:00							Coffee break		
10:00 - 10:30		M1 - Introductions and Course Overview		Coffee break	Coffee break	M2 - Guided tour - Exhibitions Obersalzberg	M8 - Guest Lecture	Coffee break	
10:30 - 11:00				M3 - Energy systems	in s comparing			M10 - Group Work	
11:00 - 11:30									M11 - Final Discussion
11:30 - 12:00							M8 - Discussion		
12:00 - 12:30	-	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
12:30 - 13:00	-		in the field						
13:00 - 13:30		M1 - Current state of the German Energiewende	M2 - Field Tour - Landscape Ecology and Cultural History	M4 - Environmental Systems	M6 - Practical course: LCA for Energy Systems	M2 - Vfield Tour - Salt Mines & Hydropower and River/Forest Ecology	M8 - Guest Lecture	M10 - Group Work	Transfer to Munich
13:30 - 14:00									
14:00 - 14:30									
14:30 - 15:00							M9 - Discussion		
15:00 - 15:30		Coffee break		Coffee break	Coffee break		Coffee break	Coffee break	
15:30 - 16:00		M8 - Guest Lecture		M4 - Environmental Systems			M9 - Panel discussion	M10 - Group Work	
16:00 - 16:30									Arrival to Munich
16:30 - 17:00									
17:00 - 17:30	M0 - Instructional Webinar		Arrival and guided tour @ Field Station				M10 - Group Work		
17:30 - 18:00									
18:00 - 18:30				Dinner	Dinner	Dinner	Dinner	Dinner	
18:30 - 19:00									
19:00 - 19:30			Joint Dinner	Free time	Free time	M7 - Instructional Lecture: Interdisciplinary Research Proposals	Group BBQ	Free time	
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									