

## 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 resource-management 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

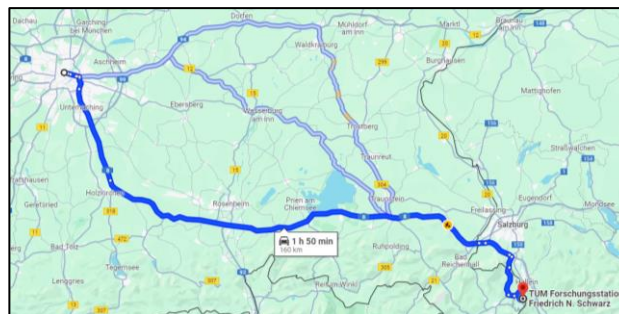
A participation fee of €200 is required for the Summer School. This fee covers accommodation, meals, transfers to and from Berchtesgaden, and field tours. Attendance is limited and subject to selection by the ABBY-Net Program Committee.

Please apply online at <http://www.abby-net.org>.  
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 Research Center, an energy neutral research facility, which has only been opened in 2019. Transport to the facility will be provided.



## Program Committee

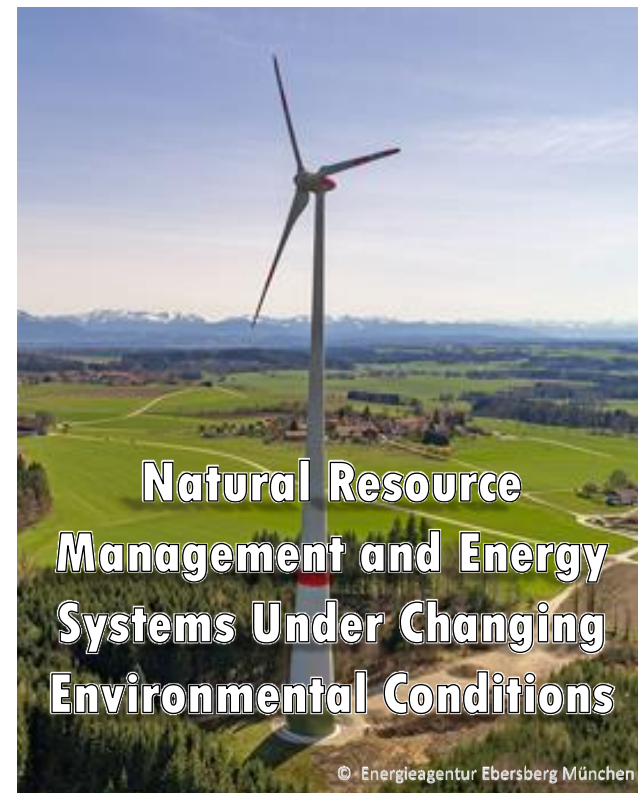
Thomas Baumann (TUM), Inga Beck (LMU), Joule Bergerson (UCalgary), Jürgen Karl (FAU), Scott Ketcheson (UAthabasca), Julia Linke (UCalgary), Ralf Ludwig (LMU), Bernhard Mayer (UCalgary), Annette Menzel (TUM), Pierre Mertiny (UAlberta), Petr Musilek (UAlberta), Matthias Schubert (LMU)



# ABBY-Net

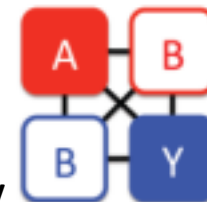
## Albertan - Bavarian Research Network

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



August 10-17, 2024

TUM Research Center  
Friedrich N. Schwarz  
Berchtesgaden, Germany



## ABBY-Net 2024 Summer School – Tentative agenda

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			M2 - Field Tour - Geothermal Energy	M3 - Energy Systems	M5 - Computing Science and AI	M2 - Field Tour - Landscape and Forest Ecology	M8 - Guest Lecture	M10 - Group Work	M11 - Group Presentations			
08:30 - 09:00		Welcome					Coffee break			Coffee break	M2 - Guided tour - Exhibitions Obersalzberg	Coffee break
09:00 - 09:30				M1 - Introductions and Course Overview	M3 - Energy systems	M5 - Computing Science and AI		M8 - Guest Lecture				Coffee break
09:30 - 10:00		M8 - Discussion					M10 - Group Work					
10:00 - 10:30								Lunch Break		Lunch Break in the field	Lunch Break	Lunch Break
10:30 - 11:00		M1 - Current state of the German Energiewende					M2 - Field Tour - Landscape Ecology and Cultural History					
11:00 - 11:30				Coffee break	Coffee break	Coffee break		Coffee break		M9 - Discussion		
11:30 - 12:00		M8 - Guest Lecture					M4 - Environmental Systems				M6 - Practical course: LCA for Energy Systems	M2 - Vfield Tour - Salt Mines & Hydropower and River/Forest Ecology
12:00 - 12:30			M0 - Instructional Webinar	Arrival and guided tour @ Field Station	Dinner	Dinner		Dinner	Dinner			
12:30 - 13:00		Ice Breaker - BBQ @ Faculty of Geosciences, LMU					Joint Dinner			Free time	Free time	M7 - Instructional Lecture: Interdisciplinary Research Proposals
13:00 - 13:30			M10 - Group Work	Arrival to Munich								
13:30 - 14:00		M10 - Group Work			Arrival to Munich							
14:00 - 14:30			M10 - Group Work	Arrival to Munich								
14:30 - 15:00		M10 - Group Work			Arrival to Munich							
15:00 - 15:30			M10 - Group Work	Arrival to Munich								
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17:30 - 18:00		M10 - Group Work			Arrival to Munich							
18:00 - 18:30			M10 - Group Work	Arrival to Munich								
18:30 - 19:00		M10 - Group Work			Arrival to Munich							
19:00 - 19:30			M10 - Group Work	Arrival to Munich								
19:30 - 20:00		M10 - Group Work			Arrival to Munich							
20:00 - 20:30			M10 - Group Work	Arrival to Munich								
20:30 - 21:00		M10 - Group Work			Arrival to Munich							