

## 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, and strive to create interdisciplinary approaches that further our understanding of energy systems and ecosystem functioning. Key topics include:

- Cleaner energy production, transportation, and storage
- Impact of energy infrastructure on ecosystem processes
- Effects of changing environmental conditions on energy systems

ABBY Net Summer Schools have been alternating between Alberta and Bavaria since 2012, when the first summer school was held in Kananaskis Country, Alberta. 2023 will be the eight edition of our program, where will once again take advantage of the excellent facilities and educational opportunities at the University of Calgary's Barrier Lake Research Station.

## Course Description

The purpose of the 8<sup>th</sup> ABBY-Net Summer School is to train young scientists in interdisciplinary approaches to energy and ecosystem research. The course will focus on resource-management issues in the province of Alberta, and the impact of resource extraction 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. In the later stages, participants will be challenged to develop interdisciplinary research proposals designed to solve practical problems related to energy development in Alberta.

For more details and applications, please visit:

<http://www.abby-net.org>



## Participation and Registration

A participation fee of CAD\$750<sup>i</sup> is required for the Summer School. This fee covers accommodation, meals, transfers between Calgary and the Barrier Lake Station, 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>. We will begin accepting applications starting September 30<sup>th</sup>, 2022. Deadline for all applications is January 31, 2023.

## Venue and Directions

The Barrier Lake Station (built in 1967) is located in the Kananaskis Valley 80 km west of Calgary, Alberta, in the Front Ranges of the Rocky Mountains. The station operates year-round, providing research and teaching facilities including a Main Lodge with a 26-person dormitory and kitchen/dining facilities, the Forestry lodge with a 32-person dormitory and kitchen/dining facilities, a laboratory building, and various stand-alone accommodations. Both dormitories accommodate 2-3 people/room with bunk beds. WiFi is available throughout the facility.



More information on the Barrier Lake Station, including a description of facilities, natural history, and an overview research projects underway can be found at <http://www.bgs.ucalgary.ca>.

## Program Committee

Dr. Greg McDermid, University of Calgary  
Dr. Pierre Mertiny, University of Alberta  
Prof. Dr. Juergen Karl, Friedrich-Alexander University of Erlangen-Nürnberg (FAU), Germany  
Prof. Dr. Ralf Ludwig, Ludwig-Maximilians University München

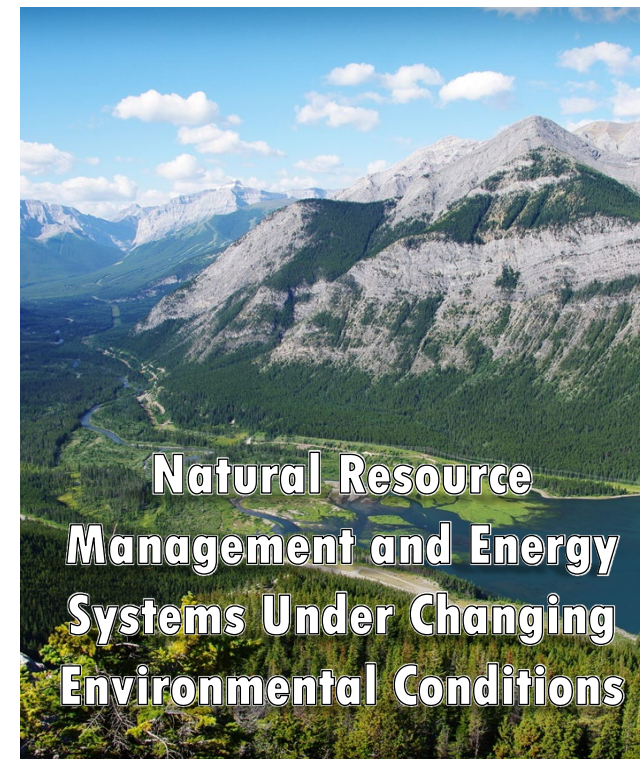
With kindly acknowledged support of the participating universities.



# ABBY-Net

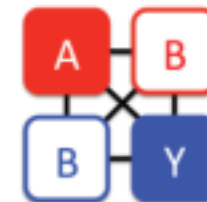
Albertan - Bavarian Research Network

Preliminary Announcement for the 8<sup>th</sup>  
ABBY-Net Summer School



August 5-12, 2023

Barrier Lake Station  
Biogeoscience Institute  
University of Calgary



Time / Date	Saturday August 5	Sunday August 6	Monday August 7	Tuesday August 8	Wednesday August 9	Thursday August 10	Friday August 11	Saturday August 12
08.00 - 08.30	Travel to Barrier Lake Field Station	<b>M1</b> Seminar: Energy Systems	<b>M3</b> Prep Lecture	<b>M5</b> Seminar: Data Analysis	<b>M7</b> Prep Lecture	<b>M9</b> Resource Management in Western Alberta: the Industry Perspective	<b>M12</b> Group Work	<b>M13</b> Group Presentations: Student Groups to Provide Formal Presentations to Instructor Panel
08.30 - 09.00								
09.00 - 09.30								
09.30 - 10.00		Coffee		Coffee		Coffee		
10.00 - 10.30	Orientation and Registration; Distribution of Materials; Formation of Groups	<b>M1 (cont.)</b> Seminar: Energy Systems		<b>M5 (cont.)</b> Seminar: Data Analysis		<b>M9 (cont.)</b> Group Work		
10.30 - 11.00								
11.00 - 11.30								
11.30 - 12.00								
12.00 - 12.30	Lunch	Lunch		Lunch		Lunch	Lunch	Farewell
12.30 - 13.00			<b>M4</b> Field Tour: Kananaskis Valley	<b>M6</b> Seminar: Energy Economics	<b>M8</b> Field Tour: Banff and the Bow Valley	<b>M10</b> Resource Management in Western Alberta: the Regulator Perspective		Travel to Calgary University main campus
13.00 - 13.30	Introductions and Course Goals	<b>M2</b> Seminar: Environment Systems						
13.30 - 14.00								
14.00 - 14.30		Coffee		Coffee			<b>M12 (cont.)</b> Group Work	
14.30 - 15.00		<b>M2 (cont.)</b> Seminar: Environment Systems						
15.00 - 15.30								
15.30 - 16.00	Seminar Consultation and Preparation							
16.00 - 16.30								
16.30 - 17.00								
17.00 - 17.30								
17.30 - 18.00	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	
18.00 - 18.30								
18.30 - 19.00	Ice Breaker	Activity	Activity	Activity	Activity	<b>M11</b> Lecture: Interdisciplinary Research Proposals	Activity	
19.00 - 19.30								
19.30 - 20.00								
20.00 - 20.30								
20.30 - 21.00								

<sup>i</sup> Please contact your supervisor to discuss opportunities for supplementing the summer school fee.