

## 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. 2019 will be the seventh 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 7<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>



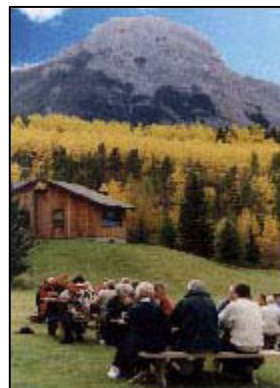
## Participation and Registration

A participation fee of CAD\$750 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/>.  
Deadline for applications is February 17<sup>th</sup>, 2019.

## 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. Joule Bergerson, University of Calgary  
Dr. Bernhard Mayer, University of Calgary  
Dr. Nilanjan Ray, University of Alberta  
Dr. Sven Anders, University of Alberta  
Prof. Dr. Ralf Ludwig, Ludwig-Maximilians University München

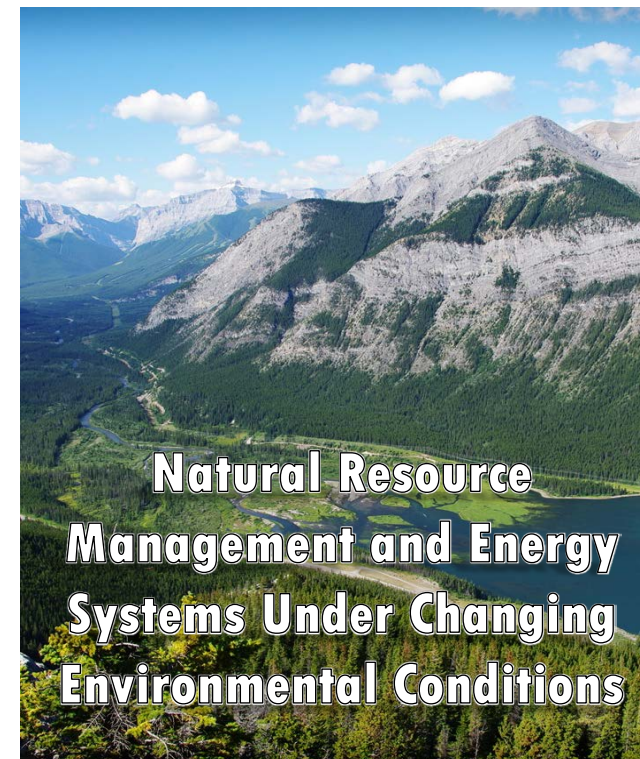
With kindly acknowledged support of the participating universities.



# ABBY-Net

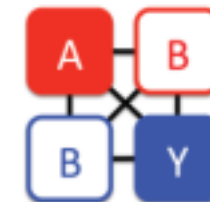
## Albertan - Bavarian Research Network

### Preliminary Announcement for the 7<sup>th</sup> ABBY-Net Summer School



August 10-17, 2019

Barrier Lake Station  
Biogeoscience Institute  
University of Calgary



Time / Date	Saturday August 10	Sunday August 11	Monday August 12	Tuesday August 13	Wednesday August 14	Thursday August 15	Friday August 16	Saturday August 17			
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									Coffee	Coffee	Coffee
09.00 - 09.30											
09.30 - 10.00	Orientation and Registration; Distribution of Materials; Formation of Groups	<b>M1 (cont.)</b> Seminar: Energy Systems	<b>M4</b> Field Tour: Kananaskis Valley	<b>M5 (cont.)</b> Seminar: Data Analysis	<b>M8</b> Field Tour: Banff and the Bow Valley	<b>M9 (cont.)</b> Group Work	<b>M12 (cont.)</b> Group Work	Farewell			
10.00 - 10.30											
10.30 - 11.00											
11.00 - 11.30											
11.30 - 12.00											
12.00 - 12.30	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch				
12.30 - 13.00	Introductions and Course Goals	<b>M2</b> Seminar: Environment Systems	<b>M6</b> Seminar: Energy Economics	<b>M6 (cont.)</b> Seminar: Energy Economics	<b>M10</b> Resource Management in Western Alberta: the Regulator Perspective	<b>M10 (cont.)</b> Group Work	<b>M12 (cont.)</b> Group Work	Travel to Calgary University main campus			
13.00 - 13.30									Coffee	Coffee	Coffee
13.30 - 14.00											
14.00 - 14.30											
14.30 - 15.00											
15.00 - 15.30											
15.30 - 16.00		<b>M2 (cont.)</b> Seminar: Environment Systems							Coffee	Coffee	Coffee
16.00 - 16.30											
16.30 - 17.00											
17.00 - 17.30	Seminar Consultation and Preparation	Coffee	Coffee	Coffee							
17.30 - 18.00											
18.00 - 18.30											
18.30 - 19.00											
19.00 - 19.30	Ice Breaker	Activity	Activity	Activity	Activity	Activity	Activity	Activity			
19.30 - 20.00											
20.00 - 20.30											
20.30 - 21.00											