

**ERASMUS+ 610383-EPP-1-2019-1-DE-EPPKA2-CBHE-JP(2019-2086)**  
**Enhancement of Postgraduate Studies**  
**on Sustainable Agriculture and Future Farming Systems(SAGRIS)**

**MODULE 2 BLOCK-SEMINAR 2**  
**«CROP AND LIVESTOCK SYSTEMS UNDER CLIMATE CHANGE»**

**A.BAITURSYNOV KOSTANAY REGIONAL UNIVERSITY**  
**Kostanay, Kazakhstan**

**June, 06-10<sup>th</sup>, 2022**

**June, 6<sup>th</sup>, 2022**

<b>Day 1</b>	<b>Opening of Block-Seminar</b>	
GMT+2	GMT+6	
<b>05:00-08:30</b>	<b>09:00-12:30</b>	Meeting of participants, university tour, Research Institute of AB, innovation laboratories, Smart Center
<b>08:30-09:30</b>	<b>12:30-13:30</b>	<b>Lunch</b>
<b>09:45-10:00</b>	<b>13:45-14:00</b>	Meeting of participants at the venue of the block seminar, online connection: To connect the Zoom conference: <a href="https://us02web.zoom.us/j/88233089237?pwd=VEVuaGFsV081d1RVOGZ4VzZ0b2tPdZ09">https://us02web.zoom.us/j/88233089237?pwd=VEVuaGFsV081d1RVOGZ4VzZ0b2tPdZ09</a>  Conference identifier: 882 3308 9237 Pass code: 269251
<b>10:00-10:30</b>	<b>14:00-14:30</b>	<b>Greeting:</b> <b>Galiya Ismuratova</b>  <i>Acting Vice-Rector for Research and Innovation and international development of ABKRU, Kazakhstan</i>
		<b>Heinrich Schuele</b>  <i>scientific leader of the project, University of Nürtingen-Geislingen, Germany</i>
		<b>Michal Lostak</b>  <i>EU module leader, Czech University of Life Sciences, Czech Republic</i>
		<b>Indira Aitzhanova</b>  <i>project coordinator, module leader, ABKRU, Kazakhstan</i>
		Agenda, Background Information and Objectives of the Seminar
<b>10:30-</b>	<b>14:30-</b>	Agroforestry for climate change adaptation and mitigation

<b>12:00</b>	<b>16:00</b>		<i>Prof. BohdanLojka</i>
<b>12:00</b>	<b>16:00</b>	<b>Coffee-break</b>	
<b>12:30-13:30</b>	<b>16:30-17:30</b>	Screening and discussion of the film on the topic “Regenerative Agriculture Revolution”	
		<a href="https://www.eitfood.eu/projects/the-regenerative-agriculture-revolution-2020">https://www.eitfood.eu/projects/the-regenerative-agriculture-revolution-2020</a>	
	<b>18:00</b>	<b>Dinner</b>	

**June, 7<sup>th</sup>, 2022**

<b>Day2</b>	<b><i>Excursiontotheenterprise</i></b>		
	GMT+6		
<b>09:00-14:00</b>	Excursion to the agricultural enterprise CF "Sadovod", Kostanay region, Kostanay, 33, Kurganskaya Str. Acquaintance with the management of the enterprise		
<b>14:00-15:00</b>	<b>Lunch</b>		
<b>15:00-17:30</b>	Presentation of project assignments for doctoral students Group work over the assignment		
<b>18:00</b>	<b>Dinner</b>		

**June, 8<sup>th</sup>, 2022**

<b>Day 3</b>	<b><i>Impact of climate change on food security and agricultural production systems</i></b>		
GMT+2	GMT+6		
<b>05:00-06:15</b>	<b>09:00-10:15</b>	International systems of indicators characterizing food security and methodological aspects of their calculation	
		<i>D.A.Aitmukhanbetova, Deputy Dean of the High School "Business and Law", associate professor of KazNARU</i>	
<b>06:15-07:30</b>	<b>10:15-11:30</b>	Influence of atmospheric precipitation on the yield of spring wheat and barley in the dry steppe zone of the Northern Kazakhstan	
		<i>Zhumagulov I.I., Candidate of Agricultural Sciences, Associate Professor of KATU named after S. Seifullin</i>	
<b>07:30</b>	<b>11:30</b>	<b>Coffee-break</b>	
<b>08:00-09:30</b>	<b>12:00-13:30</b>	Crops yield stability and resilience become more important under climate change	
		<i>Prof. Josef Hakl</i>	
<b>09:30-10:30</b>	<b>13:30-14:30</b>	<b>Dinner</b>	
<b><i>Sustainable use and management of resources</i></b>			

10:30-11:30	14:30-15:30	Food systems, food chains, food losses and waste	<i>G.B. Yunusova, c.b.sc., Head of the Department of Biology, Geography and Chemistry, ABKRU</i>
11:30	15:30	<b>Coffee-break</b>	
12:00-13:30	16:00-17:30	Group work over the assignment for doctoral students	
	18:00	<b>Dinner</b>	

June, 9<sup>th</sup>, 2022

**Day4 Environment ally friendly crop production**

GMT+2 GMT+6

05:00-06:00	09:00-10:00	The influence of weather conditions on the productivity of millet in the dry steppe zone of Kazakhstan	<i>Irina Zhirnova, doctoral student of KATU named after S. Seifullin</i>
06:00-07:00	10:00-11:00	Biotechnologies in fisheries and aquaculture of the West Kazakhstan region	<i>Ashat Zhumabayev, 1st year doctoral student of WKATU named after Zhangir Khan</i>
07:00	11:00	<b>Coffee-break</b>	
07:30-09:00	11:30-13:00	Mountain value chains under climate change - a case study of bee-honey in Slovakia	<i>Dr. Diana Surova</i>
09:00-10:00	13:00-14:00	<b>Lunch</b>	

**Sustainable livestock systems and animal welfare**

10:00-11:00	14:00-15:00	Advanced Research in Agriculture (Practical lesson)	<i>G.B. Yunusova, c.b.sc., Head of the Department of Biology, Geography and Chemistry, ABKRU</i>
11:00-12:00	15:00-16:00	Organization of feeding on feedlots	<i>Rustem Urazov, LLP "AkTep" Director</i>
12:00	16:00	<b>Coffee-break</b>	
12:30-13:30	16:30-17:30	Risk Factors for Decreased Welfare in the Context of Climate Change	<i>Beibit Kulataev, Candidate of Agricultural Sciences, Professor, KazNARU</i>
	18:00	<b>Dinner</b>	

June, 10<sup>th</sup>, 2022

**Day 5 Presentation of group projects**

GMT+2 GMT+6



**05:00-08:00**    **09:00-12:00**    Presentation of group projects developed by the doctoral students

**08:00-09:00**    **12:00-13:00**    **Lunch**

***Round table with participants of the block seminar and stakeholders***

**09:00-11:30**    **13:00-15:30**    Round Table  
Topic: «Crop and livestock systems in the climate change»

Stakeholders:

- Daniyar Zhantleuov, Head of the Livestock Department, North Kazakhstan Scientific Research Institute of Agriculture LLP
- Andrey Dvurechensky, Director of Alexandrovskoye LLP
- Viktor Simanenkov, head of the farm "Sadovod"
- Ruslan Garaykhanov, chief livestock specialist of "OlzhaAgro", LLP
- Zhadyra Baydildina, Chief Specialist in Animal Husbandry of Agrogenetics LLP

*Moderator: N.V.Papusha, Candidate of Agricultural Sciences, Associate Professor, ABKRU*

**11:30-15:30**    **Coffee-break**

**The final part of the Block Seminar**

**12:00-13:00**    **16:00-17:00**    Closing comments and feedback from Block Seminar participants  
Summing up and closing the seminar.

**18:00**    **Dinner**